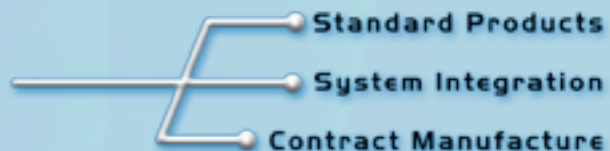


VEROTEC

Electronics Packaging



**KM6 Front Panels
& Plug-in Units**

Verotec offers an extensive range of front panels and plug-in units that meet the requirements of IEC 60297-3 / DIN 41494 and IEEE 1101.10. A large number of accessories and a full customising service ensure the needs of both board manufacturers and subrack users alike are met.

UNSHIELDED FRONT PANELS

All front panels in this category are manufactured from 2.5mm aluminium and come in two versions. **Version 1** is manufactured from pre-anodised material, has a horizontal grain and is supplied with plastic bushes as standard. **Version 2** has an anodised front face and chromated, conductive rear face for applications where electrical continuity is required to the front extrusions. They have a vertical grain and are supplied with metal bushes.

Front panels that are 2HP-9HP wide are supplied with 1 x fixing screw / bush top and bottom where as front panels in 10HP-84HP widths are supplied with 2 x fixing screws / bushes top and bottom.

All front panels are supplied in kits. **"Blank"** panels simply come with fixing hardware where as **"Standard"** panels include plastic handles and aluminium handle idents. Front panel sizes are 3U/6U heights and 2HP-84HP widths with **"Hinged"** and **"Ejector"** versions also being available.

PLUG-IN UNITS

There are two main types of plug-in unit, **"Standard"** and **"Enhanced"**. Standard types are constructed with module guide rails and incorporate the standard (version 1) front panels described above, with 3HP-9HP units having 2 x rails and 10HP-42HP units having 4 x rails. Enhanced types use an extruded side cover which incorporates a guide rail top and bottom. They are more robust and provide a higher level of shielding than standard types. They use the standard (version 2) front panels described above with a chromated inner face. 3HP-9HP units have a single left-hand extruded cover (2-Rail) with the right cover being formed metal whilst on 10HP-42HP units, both side covers are extruded (4-Rail).

SHIELDED FRONT PANELS

All front panels in this category are manufactured from 2.5mm thick extruded aluminium with vertical grain and a clear chromated finish or polyester overlay. They are fitted with a stainless steel EMC finger strip and are available with or without a pre-location pin.

"Blank" panels are supplied with the EMC finger strip fitted but come without fixings. **"Standard"** panel kits are supplied with the EMC finger strip fitted and a kit containing fixing screws, metal bushes (for maximum conductivity) and handles. 4HP-9HP width panels have a single screw fixing position top and bottom whereas 10HP-12HP width panels have two screw fixing position top and bottom.

Front panel sizes are 3U/6U/9U heights and 4HP-12HP widths with handles being available in **"Fixed"**, **"Ejector"** or **"Inject / Eject"** versions.

VXI FRONT PANELS AND MODULES

To support the VXIbus standard, a range of screened "C" and "D" size modules and front panels are available with ejector handles to aid easy extraction.



Front panels

Product	Version	Description	Page
KM6 Unshielded Front Panels (IEC 297)	Blank (No Handles)	Front panels	3
		Horizontal hinged front panels	4
		Vertical hinged front panels	5
	Standard (With Handles)	Front panels	6
		C-Type front panels	7
		Ejector front panels	8
		D-Sub front panels	9
	Front panel accessories and hardware		10-11
KM6 Plug-In-Units (IEC 297)	Standard (Guide Rails)	2-Rail plug-in-units (3HP-9HP)	12-13
		4-Rail plug-in-units (10HP-42HP)	14-15
		Plug-in-unit screens	16-17
	Enhanced (Extruded Side)	2-Rail plug-in-units (6-10HP)	18
		4-Rail plug-in-units (12-42HP)	19
	Plug-in-unit accessories and hardware		20
KM6 Shielded Front Panels (IEEE 1101.10)	Blank (No Handles)	Front panels	21
		Front panels – fixed handles	22
	Standard (With Handles)	Front panels – ejector handles	23
		Front panels – injector / ejector handles	24
	Front panel accessories and hardware		25
VXI Front Panels And Modules	VXI modules		26
	VXI Front Panels		27

Unshielded blank front panels

BLANK FRONT PANELS 3U AND 6U

- Conform to IEC 60297-3 and DIN 41494
- Comprehensive range of widths, available in kit or bulk pack form

Having only the standard sight hole and retaining screw holes, these panels have no handles, leaving the total area free for the mounting of instruments, switches, meters, etc. They can also be used at the rear of a subrack for mounting plug and socket connectors.

Version 1 have anodised front and inner faces. The method of manufacture produces cut edges which will not be visible in normal use. Version 1 panels can be identified by their 957 prefix. Material grain is horizontal and the kit includes plastic retaining inserts as standard. These inserts can be replaced with a metal type (see page10).

BULK PACKING

Subject to minimum quantities, we can supply front panel kits in bulk, offering savings in packaging and unpacking time. Please specify 'BULK PACK' when ordering.

CONTENTS OF KITS

Description	Material
Front panel	2,5mmg ALMg3 ½ hd anodised
Special screw	M2,5 x 11mm
Retaining insert	Plastic – see text above

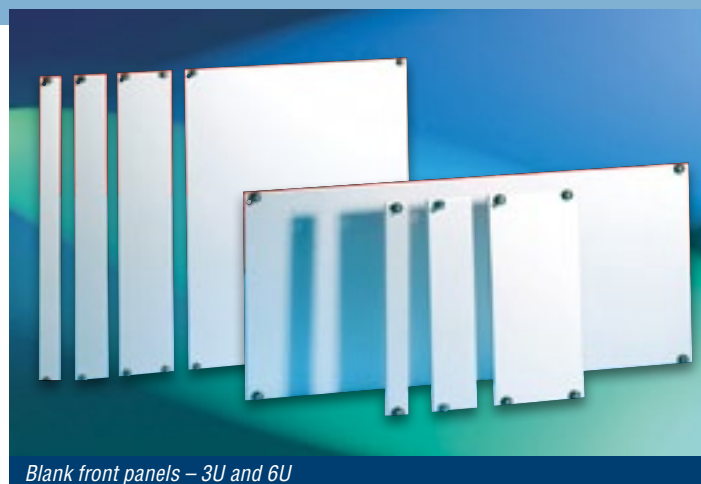
ORDERING INFORMATION

Description: Blank panels 3U, version 1

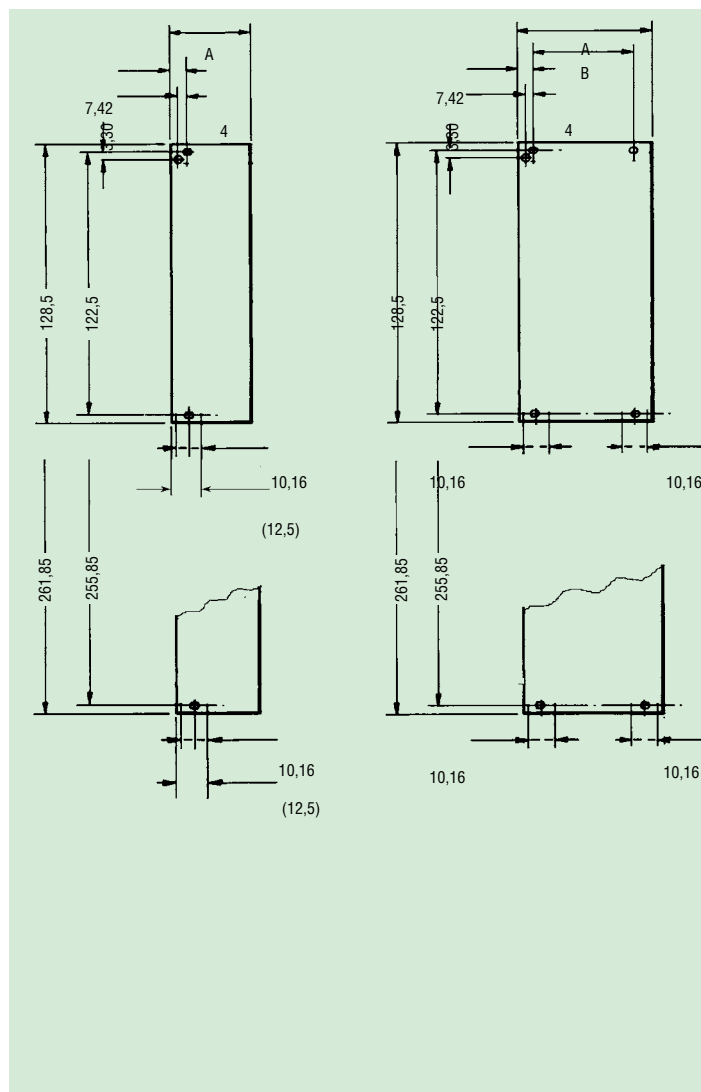
Width	A	B	Order code
2HP	9,8	–	957-236038
3HP	14,84	–	957-236041
4HP	19,92	–	957-236042
5HP	25	–	957-236043
6HP	30,08	–	957-236044
7HP	35,16	–	957-236045
8HP	40,24	–	957-236046
9HP	45,32	–	957-236047
10HP	50,4	35,56	957-236056
12HP	60,56	45,72	957-236057
14HP	70,72	55,88	957-236059
21HP	106,28	91,44	957-236061
24HP	121,52	106,68	957-236062
42HP	212,96	198,12	957-236063
60HP	304,4	289,56	957-236064
84HP	426,32	411,48	957-236065

Description: Blank front panels 6U - version 1

Width	A	B	Order code
2HP	9,8	–	957-236048
3HP	14,84	–	957-236049
4HP	19,92	–	957-236050
5HP	25	–	957-236051
6HP	30,08	–	957-236052
7HP	35,16	–	957-236053
8HP	40,24	–	957-236054
9HP	45,32	–	957-236055
10HP	50,4	35,56	957-236066
12HP	60,56	45,72	957-236067
14HP	70,72	55,88	957-236068
21HP	106,28	91,44	957-236069
24HP	121,52	106,68	957-236070
42HP	212,96	198,12	957-236071
60HP	304,4	289,56	957-236072
84HP	426,32	411,48	957-236073



Blank front panels – 3U and 6U



2 KM6 front panels and plug-in units

Order separately

Product	Page
Additional card mounting brackets	10
Screws, bushes and fixings	10

Unshielded blank front panels

KM6-II HORIZONTALLY HINGED PANEL

Typically used in situations where quick access is needed to equipment, but it is not desirable to remove the panel completely - e.g. as a socket mounting or display panel.

A range of aluminium panels is supplemented by a 3U, 84HP smoked transparent version for use where it is necessary to view instruments or indicators.

Standard kits are supplied with plastic hinges. A die-cast metal hinge kit is available separately as an accessory to replace the plastic type.

Version 1 has anodised front and rear faces. The method of manufacture produces cut edges which are invisible in normal use. The kit includes plastic retaining inserts and plastic hinges as standard. Both plastic inserts and hinges can be replaced by metal versions.

Version 3 is a decorative panel, being entirely anodised after manufacture. It is supplied in kit form with plastic inserts and hinges as standard. These inserts and hinges can be replaced with metal versions.

CONTENTS OF KITS

Description	Material/Finish
Hinged panel	Lexan Polycarbonate, UL 94.V0
Two hinges and fixings	Polypropylene, black
Metal hinge kit:	
Two hinge sets and fixings	Mazak, painted black

ORDERING INFORMATION

Description: Horizontally hinged front panel

Height	Width	Type	Hinge	A	Order code
3U	24HP	Version 1	Plastic	121,52	957-236180
	42HP	Version 1	Plastic	212,96	957-236181
	60HP	Version 1	Plastic	304,40	957-236182
	84HP	Version 3	Plastic	426,32	953-236184
6U	84HP	Version 3	Plastic	426,32	953-236190

Transparent horizontally hinged front panel

Description: Smoked transparent front panel - horizontal

3U	84 HP	—	Plastic	426,32	953-236516
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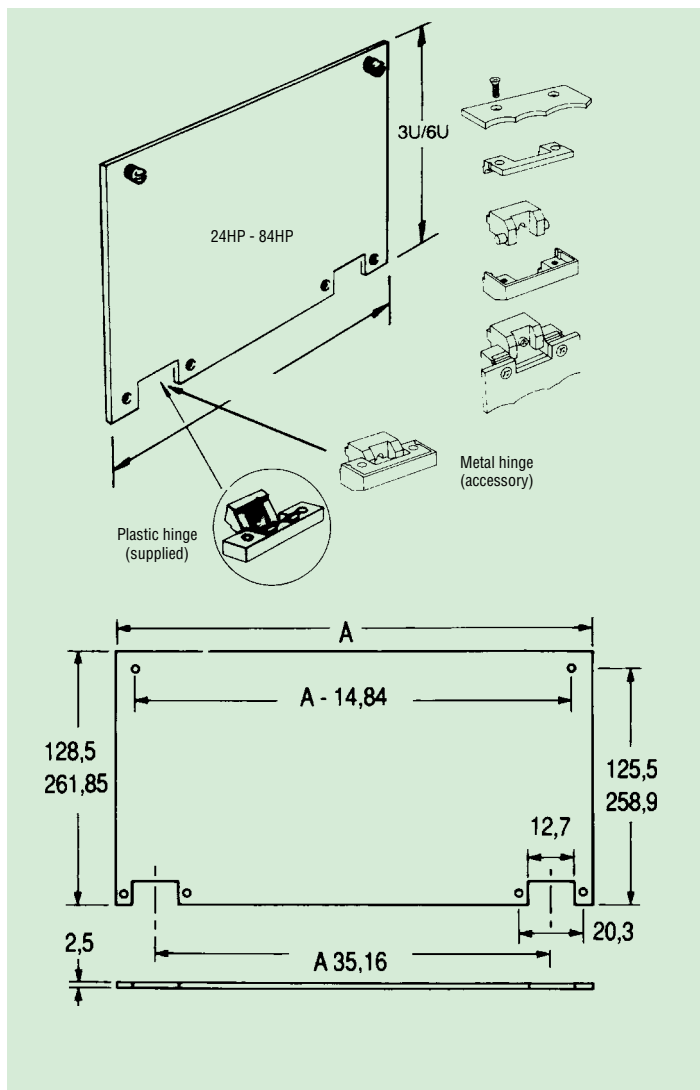
Hinge kit

Description: Metal hinge kit

Hinge kit	174-26556C
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KM6-II horizontally hinged panel



Order separately

Product	Page
Additional card mounting brackets	10
Screws, bushes and fixings	10

Unshielded blank front panels

KM6-II VERTICALLY HINGED PANEL

Two hinge types are available: heavy duty metal and a lighter duty, plastic type. They can be hinged right or left as required. Both types are supplied in 3U and 6U, 84HP wide.

Version 3 is a decorative panel, being entirely anodised after manufacture. It is supplied in kit form with plastic inserts as standard which can be replaced with a metal type. These inserts can be replaced with a metal type - please see page 10 for details.

BULK PACKING

Subject to minimum quantities, we can supply panel kits in bulk, offering savings in packaging and unpacking. Please specify 'BULK PACK' when ordering.

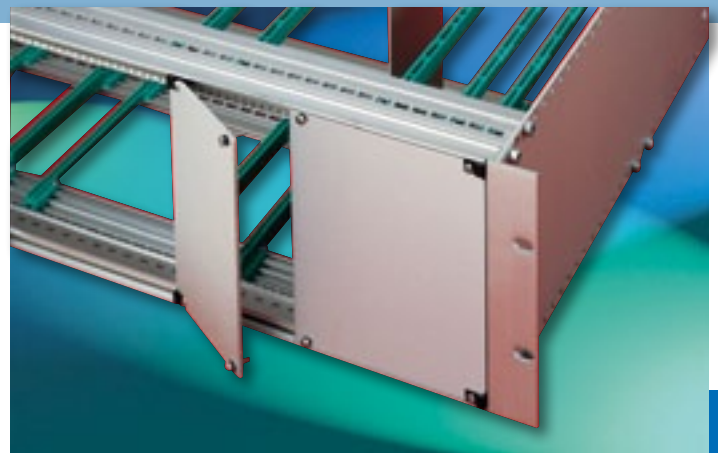
Contents of kits

Description	Material/Finish
Panel	2,5mm Aluminium, etch and anodised
1 set of hinges	Luranylo 2452/1 black
Metal hinges	Die-cast end bracket, extruded aluminium hinge plate
All fixings	

Ordering information

Description: Hinged front panel - vertical

Height	Width	Type	Hinge	A	Order code
3U	84HP	Version3	Plastic	426,32	953-236121
			Heavy duty	416,65	953-236125
6U	84HP	Version 3	Plastic	426,32	953-236124
			Heavy duty	416,65	953-236126

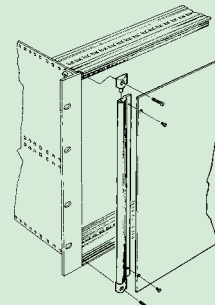


KM6-II plastic hinge versions

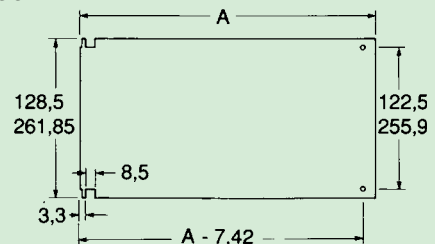


KM6-II metal hinge versions

Heavy duty version



Normal version



Order separately

Product	Page
Additional card mounting brackets	10
Screws, bushes and fixings	10

Unshielded standard front panels

STANDARD TYPE 3U AND 6U

- Two versions, available in comprehensive range of widths
- Supplied in kit or bulk pack form
- Conforms to IEC 60297-3 and DIN 41494

Version 1 has anodised front and inner faces. The method of manufacture produces cut edges which are invisible in normal use. Material grain is horizontal. The kit includes as standard plastic retaining inserts, which can be replaced with a metal type.

Version 2 has an anodised front face and a chromated, conductive inner face for grounding purposes. Supplied with metal retaining inserts as standard.

BULK PACKING

Subject to minimum quantities, we can supply front panel kits in bulk, offering savings in packaging and unpacking time. Please specify 'BULK PACK' when ordering.

CONTENTS OF KITS

Item	Description	Material
1	Front panel	2,5mmg ALMg3 ½ hd
2	Handle	Luranyl 2452/1, black
3	Ident label	1,5mmg A1Mg3 ½ hd anodised
4	Screw M2, 5 x 16	
5	Screw M2, 5 x 7	
6	Special screw M2,5 x 11	
7	Nut M2,5	
8	Shakeproof washer M2,5	
9	Retaining insert	See Text
Assembly instructions		

ORDERING INFORMATION

Description: Standard front panels - 3U

Panel width	Dim 'A'	Dim 'B'	Order code Version 1	Order code Version 2
3HP	14,8	-	957-235347	953-235335
4HP	19,9	-	957-235348	953-235336
5HP	25,0	-	957-235349	953-235339
6HP	30,1	-	957-235351	953-235340
7HP	35,2	-	957-235352	953-235341
8HP	40,2	-	957-235353	953-235342
9HP	45,3	-	957-235354	953-235376
10HP	50,4	35,6	957-235355	953-235343
12HP	60,6	45,7	957-235356	953-235344
14HP	70,7	55,9	957-235357	953-235345
21HP	106,3	91,4	957-235358	953-235346
24HP	121,5	106,7	957-235359	-
42HP	213,0	198,1	957-235360	-
84HP	426,3	411,5	957-236065*	-

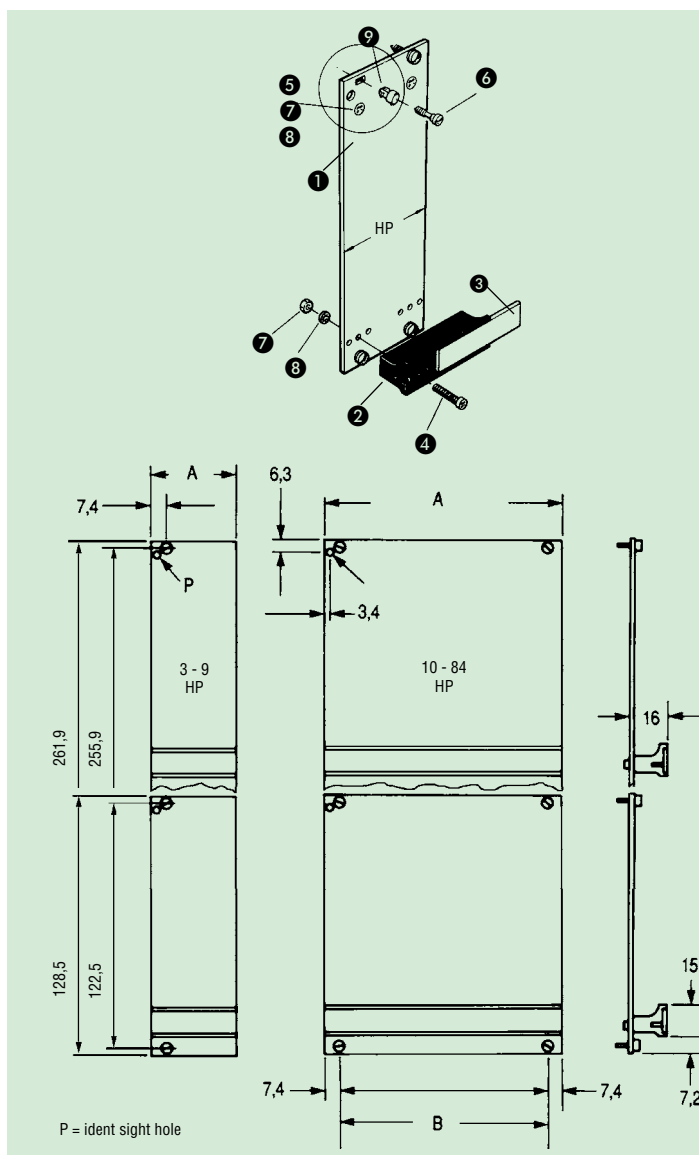
Description: Standard front panels - 6U

4HP	19,9	-	957-235459	953-235442
5HP	25,0	-	957-235460	-
6HP	30,1	-	957-235461	953-235444
7HP	35,2	-	957-235462	-
8HP	40,2	-	957-235463	953-235446J
10HP	50,4	35,6	957-235465	-
12HP	60,6	45,7	957-235466	953-235449
14HP	70,7	55,9	957-235467	-
24HP	121,5	106,7	957-235469	-
42HP	213,0	198,1	957-235470	-
84HP	426,3	411,5	957-236073*	-

Ⓜ = Denotes minimum order quantity, please contact our sales office. * This item has no handles



Standard type - 3U



Order separately

Product	Page
Additional card mounting brackets	10
Screws, bushes and fixings	10
Slimline handles	11

Unshielded standard front panels

TYPE C FRONT PANEL

- Handles top and bottom for maximum component space
- Easier connector disengagement
- Typical layout for VME bus plug-in units

Version 1 has anodised front and inner faces. The method of manufacture produces cut edges which will not be visible in normal use. Version 1 panels can be identified by their 957 prefix. Material grain is horizontal and the kit includes plastic retaining inserts as standard. These inserts can be replaced with a metal type.

Version 2 has an anodised front face and a chromated, conductive inner face for grounding purposes. Supplied with metal retaining inserts as standard. Version 2 panels are prefixed with 953.

BULK PACKING

Subject to minimum quantities, we can supply front panel kits in bulk, offering savings in packaging and unpacking time. Please specify '**BULK PACK**' when ordering.

Contents of kits

Description	Qty.	Material
Front panel	1	2,5mmg ALMg3 ½ hd
Handles	2	Luranylo 2452/1,black
Ident labels	2	1,5mmg A1Mg3 ½ hd
Fixings		

Ordering information

Description: Type C Front panels – version 1

Height	Width	Type	Order code
6U	4HP	Version 1	957-244797
	8HP	Version 1	957-244798
9U	4HP	Version 1	957-244799
	8 HP	Version 1	957-244800

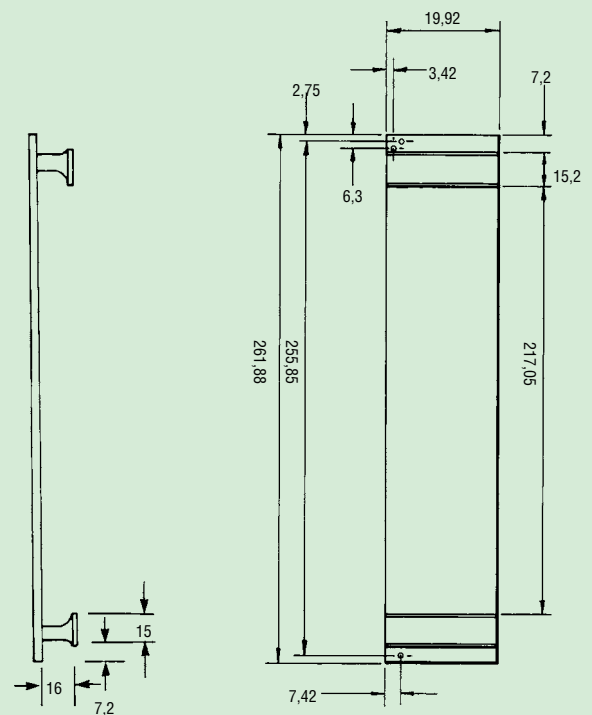
Description: Type C Front panels – version 2

6U	4HP	Version 2	953-236016
	8HP	Version 2	953-236022
9U	4HP	Version 2	953-236023



Type C front panels

Type C Front panels



Order separately

Product	Page
Additional card mounting brackets	10
Screws, bushes and fixings	10
Slimline handles	11

Unshielded standard front panels

4HP EJECTOR HANDLES AND FRONT PANELS

These ejector handles provide mechanical assistance for removing PCBs with high extraction forces. The handle works by bearing on the front extrusion of IEC 60297-3 subracks.

Features

- Easy extraction of PCBs
- Normal KM6 front panel handle appearance
- Choice of plastic or metal card mounting brackets
- 3U, 6U and 9U x 4hp front panels available with facility for additional mounting bracket fixing

Version 1 has anodised front and inner faces. The method of manufacture produces cut edges which will not be visible in normal use. Version 1 panels can be identified by their 957 prefix. Material grain is horizontal and the kit includes plastic retaining inserts as standard. These inserts can be replaced with a metal type.

BULK PACKING

Subject to minimum quantities, we can supply front panel kits in bulk, offering savings in packaging and unpacking time. Please specify '**BULK PACK**' when ordering.

Contents of kits – Ejector handles

Description	Qty	Material
Pairs of handles	10	Makrolon 9425 glass filled (UL94-VO material)
Mounting brackets	20	Luranylo 2452/1 or die cast
Hinge pins	20	Brass
Fixings		
Assembly instructions		

Contents of kits – Front panels

Front panel	1	2,4mm ALMg3 ½ hd
Handle idents	2	1,5mm ALMg3 ½ hd
Fixings		

Ordering information

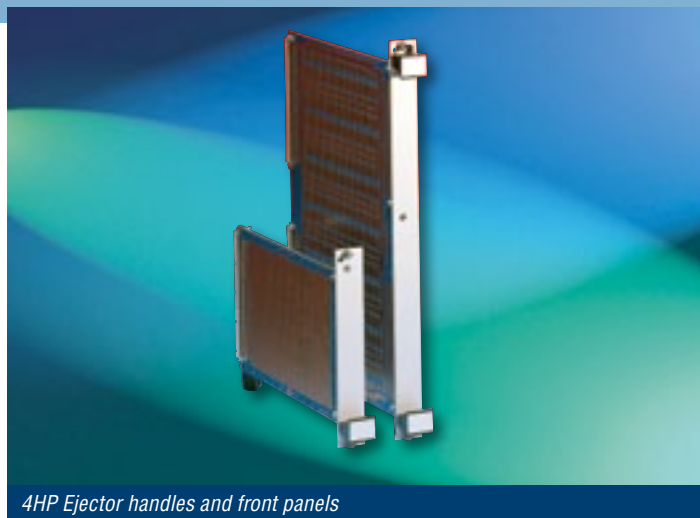
Description	Order code	
Ejector handle kit	Plastic brackets	173-202288
	Metal brackets	173-202287
3U x 4 HP front panel kit	Version 1	957-244801
6U x 4 HP front panel kit	Version 1	957-244802
9U x 4 HP front panel kit	Version 1	957-244803
4 HP aluminium ident labels (Pk. 10)		174-39403

3U VERSIONS

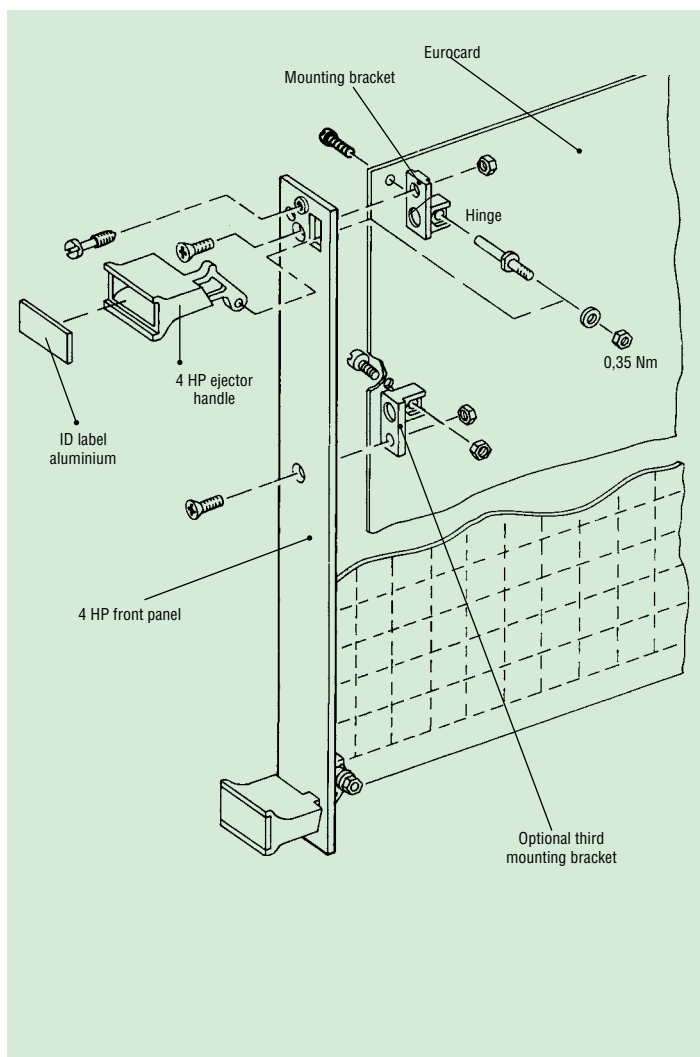
Typically 3U panels have an ejector at the bottom only. These kits contain only 10 bottom handles and associated parts.

ORDERING INFORMATION

Description	Order code	
3U Ejector handle kit	Plastic brackets	173-283274
	Metal brackets	173-283071



4HP Ejector handles and front panels



Order separately

Product	Page
Additional card mounting brackets	10
Screws, bushes and fixings	10

Unshielded standard front panels

25 WAY D-SUB CONNECTOR MOUNTING

This range of panels will fit KM6-II and similar IEC60297-3 subracks. Each panel is supplied with fixing screws, inserts and a sight hole. Blanking plates can be used to fill unused apertures.

FEATURES

- IEC60297-3 compatible
- Various configurations
- Blanking plate available

TYPE 1 panels are anodised and supplied with plastic bushes, fixing screws, handles and idents.

TYPE 2 panels have an anodised front face and chromated rear face for grounding purposes. They are supplied with metal bushes and fixing screws only. Handles and idents should be ordered separately.

BULK PACKING

Subject to minimum quantities, we can supply front panel kits in bulk, offering savings in packaging and unpacking time. Please specify 'BULK PACK' when ordering.

ORDERING INFORMATION

Description: D Sub connector mounting

Height	Width	Type	Cut-outs	Order code
	4HP	Type 1 front panel	1	953-236501
3U	4HP	Type 2 front panel	2	953-236503
	12HP	Type 2 front panel	6	953-236504
6U	8HP	Type 2 front panel	6	953-236505
55mm	13mm	Blanking plate		174-10013 M

M = Denotes minimum order quantity, please contact our sales office.

FRONT PANEL FRAME

Supplied as a kit, either with or without front handles, this 84HP wide frame permits the mounting of 3U, IEC 60297-3 front panels in 19" rack applications. Typically this application appears in networking and machine tool situations where the panels are carrying connectors, keypads or controls only and a full subrack is not necessary.

CONTENTS OF KIT

Item/Description	Qty.	Material/Finish
End plate angles	2	2,5mm Aluminium BS 1470 5251-H24 (NS4 H6), conductive clear chromate
Stub end plates	2	2mm Aluminium, alocrom 1000
Plain front extrusions	2	Aluminium alloy BS 1474 6063T6
Tapped strips	2	MS zinc passivate
Fixings		

ORDERING INFORMATION

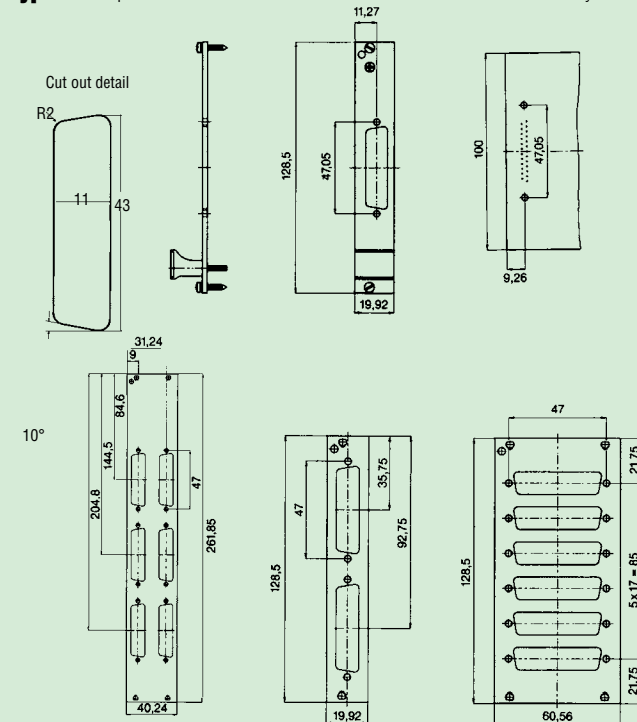
Description: Front panel frame

Height	Width	Handles	Order code
3U	84HP	No	950-261554
		Yes	950-261553



25 Way D-sub connector mounting

Type 1: Front panel with handle and with cutout for one vertical 'D' sub connector 25 way



Type 2: Front panels less handles with multiple cutouts for 25 way 'D' sub connector 25 way



Front panel frame

Order separately

Product	Page
Additional card mounting brackets	10
Screws, bushes and fixings	10

CARD MOUNTING BRACKETS

The normal PCB mounting brackets are for use where front panels are mounted into IEC/DIN subracks and caseframes that require the conventional 2,54mm gap between the rear of the front panel and the PCB. Available in two versions; moulded in Noryl or zinc die-cast. The die cast version is now tapped in both axes, making assembly easier and quicker.

Material

Plastic card mounting bracket: Luranyl 2452/1, Green
Metal card mounting bracket: Die cast Zinc

Contents of Kit

2 or 10 x brackets
2 or 10 x M2.5 x 6 cheese head screws

Ordering information

Description	Ordercode
Plastic brackets (pair)	173-12525
Metal brackets (pair)	173-12526
Plastic brackets (pack 10)	173-232669
Metal brackets (pack 10)	173-253258 or 173-44767

FRONT PANEL SCREWS AND BUSHES

A variety of front panel screws and bushes are available to suit the KM6 range of front panels and also for general use.

KM6 CAPTIVE SCREWS AND BUSHES – FOR KM6 PANELS

The KM6 captive screw is available in a standard slotted or knurled thumb screw version, and should only be used with the KM6 bush. It's tapered collar design expands the jaws of the bush when tightened so that when the metal bush is used, a conductive path is formed to the front panel. Supplied in packs of 100.

Ordering information

Description	Fig No.	Ordercode
M2.5 Front panel slotted screw	1	953-236510
M2.5 Front panel thumb screw	3	953-236512
M2.5 Front panel bush, plastic	2	953-236507
M2.5 Front panel bush, conductive	4	953-236506

STANDARD CAPTIVE SCREWS AND BUSHES – FOR GENERAL USE

The standard captive screw is available in a standard slotted version only and can be used in three ways; (1) With a plastic M2.5 bush, (2) with a plastic M2.5 collar (threaded hole required in panel) or (3) with a metal M2.5 threaded insert.

Supplied in packs of 100 (except insert, pack 10)

Ordering information

Description	Fig No.	Ordercode
M2.5 Front panel slotted screw	5	174-39374
M2.5 Front panel bush, plastic	7	174-39373
M2.5 plastic collar	6	174-39385
M2.5 metal threaded insert (pk10)	8	174-229770



Card mounting bracket - plastic



Card mounting bracket - metal

Normal bracket

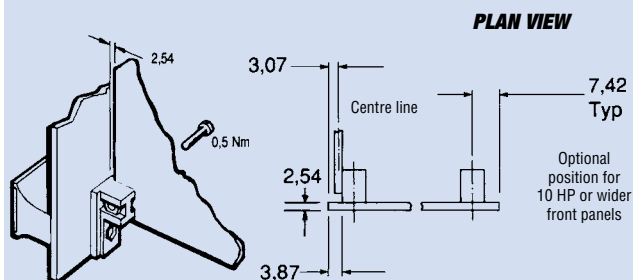


Fig .1 - Captive slotted screw



Fig .2 - Plastic bush



Fig .3 - Captive thumb screw



Fig .4 - Metal, conductive bush



Fig .5 - Captive slotted screw



Fig .6 - Plastic collar



Fig .7 - Plastic bush



Fig .8 - Metal threaded insert

FRONT PANEL HANDLES AND IDENTs

Handle and ident's that are supplied in our standard front panel kits are available separately and can be used on any suitably drilled front panel. Separate ident's make silk-screening company logos / product data easy. Supplied in packs of 10.

Material / finish

Plastic handle: Luranyl 2452/1, Black
Handle Ident: 1.5mm Aluminium, anodised

Ordering information

Front panel width	Handle	Ident
3HP	174-39387	174-39402
4HP	174-39388	174-39403
5HP	174-39389	174-39404
6HP	174-39390	174-39405
7HP	174-39391	174-39406
8HP	174-39392	174-39407
9HP	174-39393	174-39408
10HP	174-39394	174-39409
12HP	174-39395	174-39410
14HP	174-39396	174-39411
21HP	174-39397	174-39412
24HP	174-39398	174-39413
42HP	174-39399	174-39414

HANDLE FIXING HARDWARE

Description	Pack	Ordercode
M2.5 x 16 reduced head screw	100	174-63105
M2.5 shakeproof washer	100	27-1318
M2.5 hex nut	100	27-1319

SLIMLINE EXTRUDED HANDLES

When suitably drilled, blank front panels can be fitted with this extruded aluminium handle. Alternatively, it can be used to replace the moulded plastic handles normally supplied with our front panels – also described above. They offer solvent resistance and also free up front panel component space. Supplied in packs of 10 with fixings.

Material / finish

Slimline extruded handle: Aluminium, anodised.

Ordering information

Front panel width	Handle
3HP	953-250838
4HP	953-250839
5HP	953-250840
6HP	953-250841
8HP	953-250842
10HP	953-250843
12HP	953-250844

PCB POLARISING DEVICE MOUNTING BRACKET

This mounting bracket is designed to place the pcb in the normal IEC/DIN position as well as offering a polarising feature.

The device is in two parts (plug and socket), and can be fitted at the top or bottom of the pcb/front panel (or both). This item enables the user to code individual cards within a subrack or caseframe

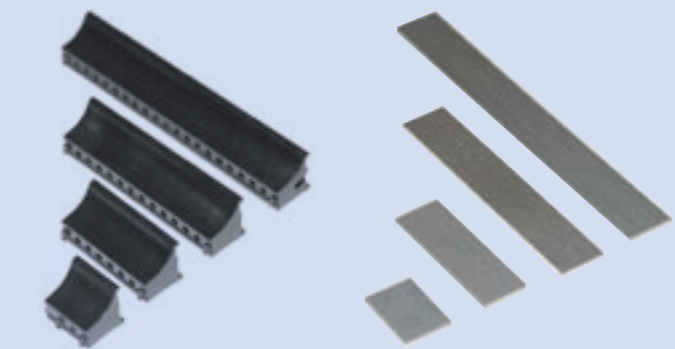
Note: Before the polarising device prevents final insertion, it is possible to partially engage the connector. It is thus not suitable for discriminating on powered up systems.

Contents of kits

Description	Qty.	Material/Finish
Top socket	1	2 plugs, Nylon 66 black
Bottom socket	1	4 polarising plugs, Nylon 66 black

ORDERING INFORMATION

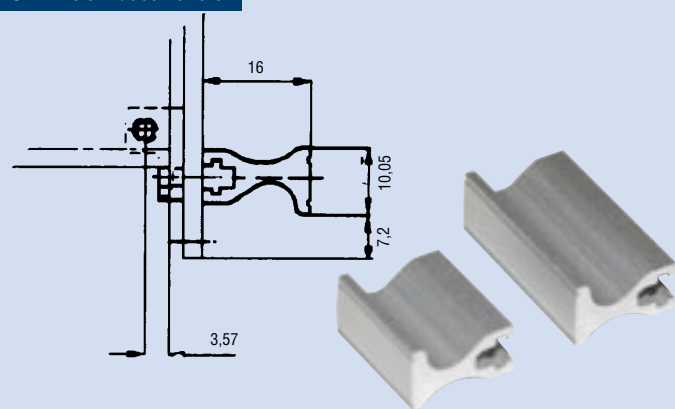
Description	Ordercode
Polarising Mounting Bracket	173-24169



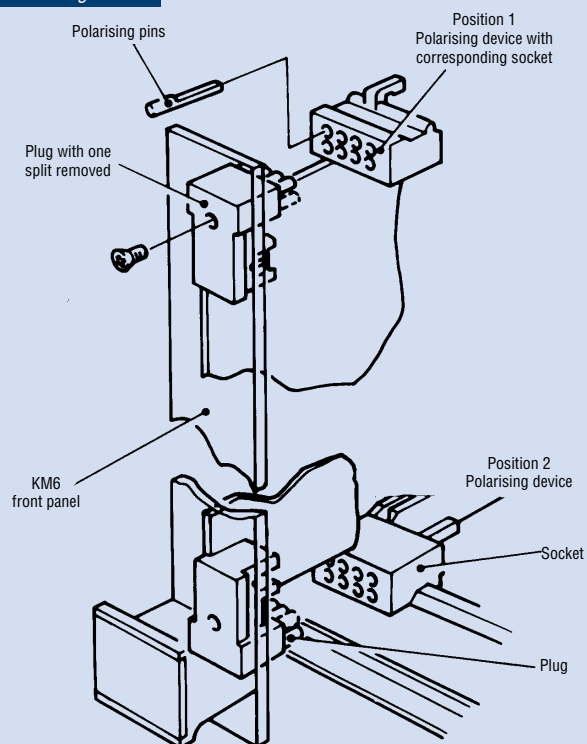
Handle

Idents

Slimline extruded handle



PCB Polarising device



Standard plug-in-units – 2 Rail

2 RAIL PLUG-IN UNITS

Designed for 111.8mm height guides, these standard 2 rail plug-in units are compatible with the KM6-II subrack range as well as the Diplomat caseframe.

Features

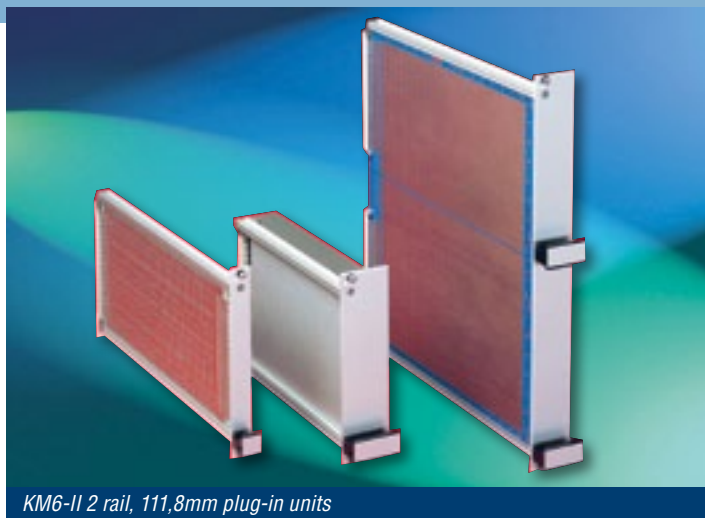
- Maximum volume
- Alternative PCB positions
- PCB and connector easily removed, no disassembly required
- 3HP to 9HP, 160mm or 220mm deep
- Standard front panel with horizontal grain and plastic insert
- Aluminium identification labels
- Easy and fast assembly
- Supplied packed flat
- No adjustment required

Contents of kits

Description	Qty	Material/Finish
Front panel	1	2,5mm aluminium, BS 1470NS4 1/2H etch and clear anodise
Identification labels	3U x 1 6U x 2	1,5mm aluminium alloy BS 1470 NS4 1/2H
Handle	3U x 1 6U x 2	Luranylo 2452/1
Guide rails	2	Aluminium alloy BS 1474 HE9 TF etch and clear anodise,
Connector/PCB mounting brackets	2	Mazak 3
All fixings		

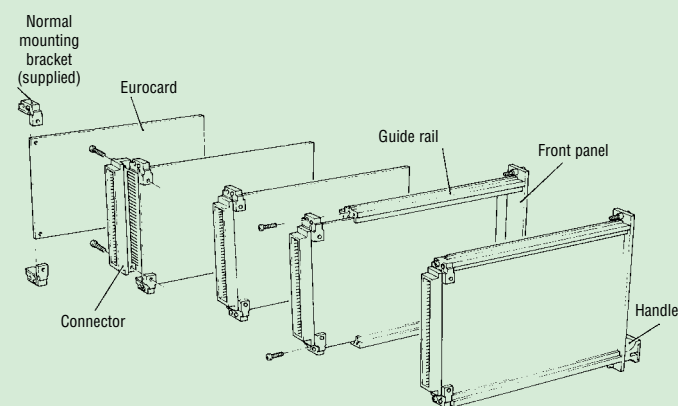
ORDERING INFORMATION

Height	Width	Order code	
		160mm deep	220mm deep
3U	3HP	957-236290	957-236307
	4HP	957-236294	957-236308
	5HP	957-236297	957-236309
	6HP	957-236298	957-236310
	7HP	957-236304	957-236311
	8HP	957-236305	957-236312
	9HP	957-236306	957-236313
	4HP	957-236315	957-236321
	5HP	957-236316	957-236322
6U	6HP	957-236317	957-236339
	7HP	957-236318	957-236340
	8HP	957-236319	957-236341



KM6-II 2 rail, 111.8mm plug-in units

KM6-II - 2 Rail plug-in units assembly



160mm modules fit to two piu guides
220mm modules fit to two piu guides
Guides are supplied in Pks of 10.

950-232664E
950-232665C

ORDER SEPARATELY

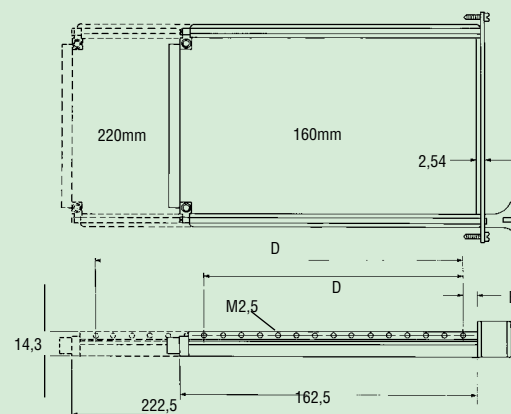
Product	Page
Left hand and right hand screens	16
Top and bottom screens	16
Alternative connector mounting brackets	13
Fixings	20

DIMENSIONAL DETAILS

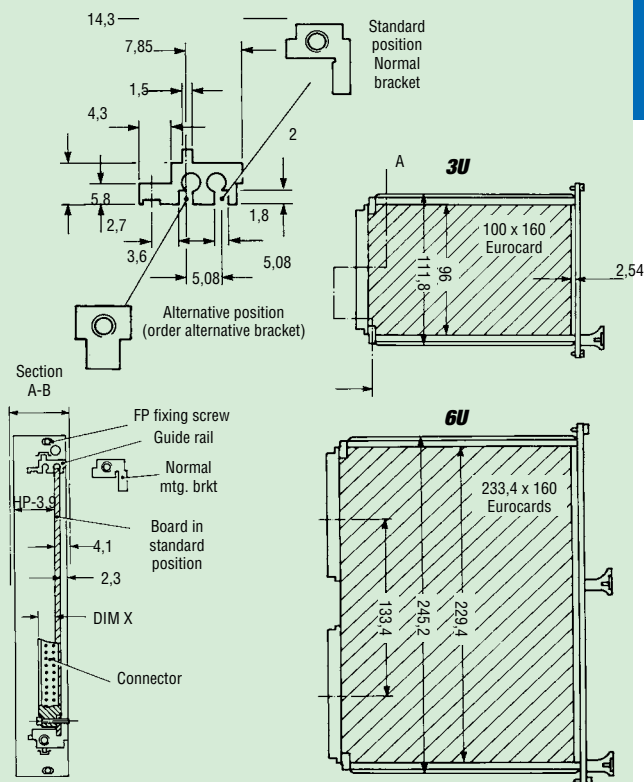
Depth	Dim D		Dim E	
160	142,24		7,6	
220	203,2		7,15	

Connector type	B	C	D	E	F	G	H
DIM X	7,6	9,4	9,4	14,4	11,3	16,3	11,3

TOP VIEW



GUIDE RAIL EXTRUSION



ALTERNATIVE MOUNTING BRACKETS FOR CONNECTORS

When the alternative card position is employed (without screening) alternative mounting brackets for the connectors should be ordered. Normal mounting brackets are supplied with all 2 and 4 rail plug-in units. Additional normal mounting brackets are available in packs of 10.

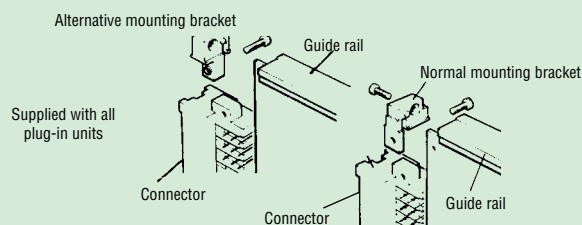
CONTENTS OF KITS

Description	Qty.	Material/Finish
Mounting brackets	10	Mazak 3
Fixings		

ORDERING INFORMATION

Description	Qty.	Order code
Normal mounting brackets	10	174-13019
Alternative mounting brackets	10	174-13020

Alternative mounting brackets for connectors



Standard plug-in units – 4 Rail

4 RAIL PLUG-IN UNIT

Designed for 111.8mm height guides, these standard 4 rail plug-in units are compatible with the KM6-II subrack range as well as the Diplomat caseframe.

Features

- Maximum volume
- Alternative PCB mounting positions
- PCB and connector easily removed, no disassembly required
- 10 HP to 42 HP, 160mm or 220mm deep
- Standard front panel with horizontal grain and plastic insert
- Aluminium identification labels
- Break-off tags for alternative connector position
- Easy and fast assembly
- Supplied packed flat
- Compatible with all KM6-II, KM6-EC, VECASE 700 and Diplomat subracks and enclosures

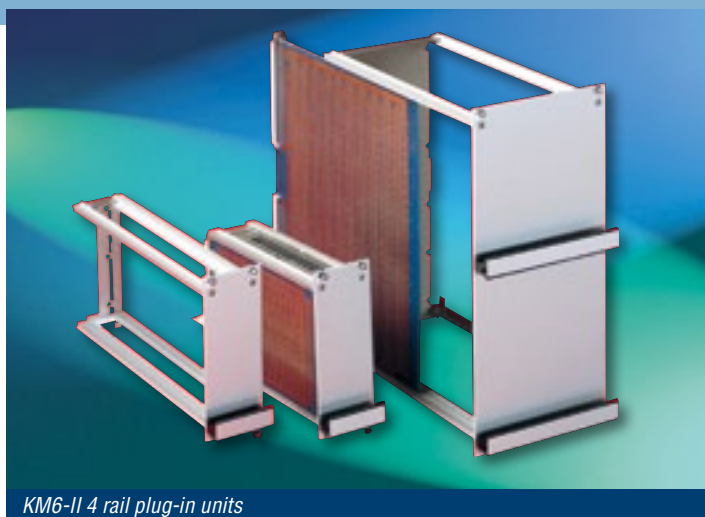
Contents of kits

Description	Qty.	Material/Finish
Front panel	1	2,5mm aluminium BS 1470NS4 1/2H etch and clear anodise
Handle and identification strips	3U x 1 6U x 2	Luranylo 2452/1, black, 1,5mm aluminium alloy BS 1470 NS4 1/2H
Guide rails	4	Aluminium alloy BS 1474HE9 TF etch and clear anodise
Connector/pcb mounting brackets	2	Mazak 3
Rear panel		1,5mm Aluminium alloy BS 1470 NS4 1/2H
All fixings		

Note: order separately; screens, side plates and base plates

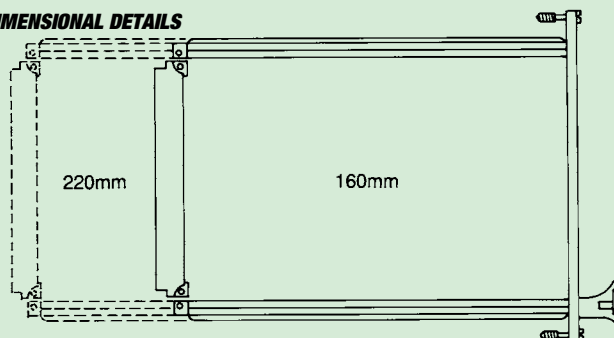
ORDERING INFORMATION

Height	Width	Order code	Order code
		160mm deep	220mm deep
3U	10HP	957-236386	957-236399
	12HP	957-236387	957-236400
	14HP	957-236388	957-236401
	21HP	957-236389	957-236402
	24HP	957-236390	957-236403
	42HP	957-236391	957-236404
6U	10HP	957-236393	957-236405
	12HP	957-236394	957-236406
	14HP	957-236395	957-236407
	24HP	957-236397	957-236409
	42HP	957-236398	957-236410

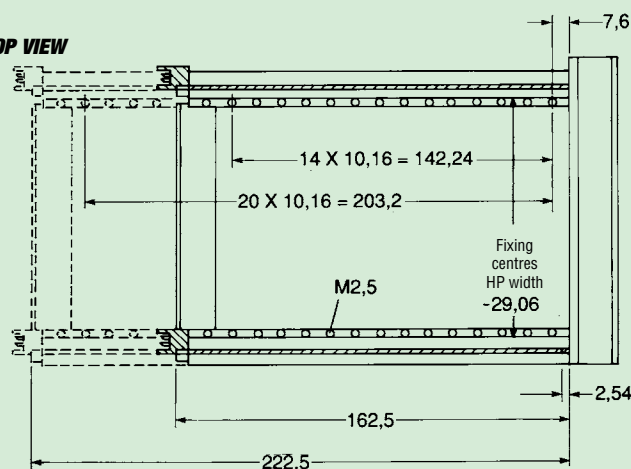


KM6-II 4 rail plug-in units

DIMENSIONAL DETAILS



TOP VIEW

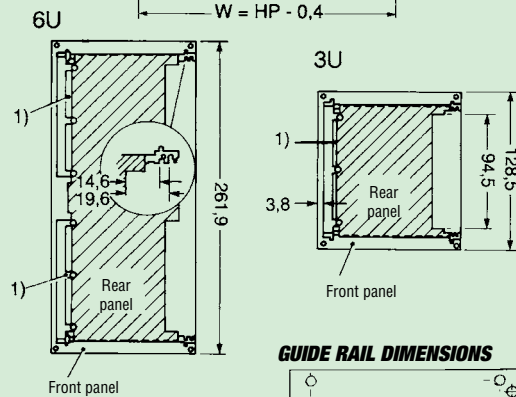
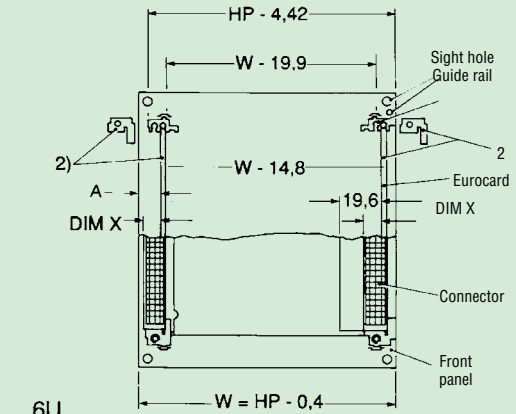
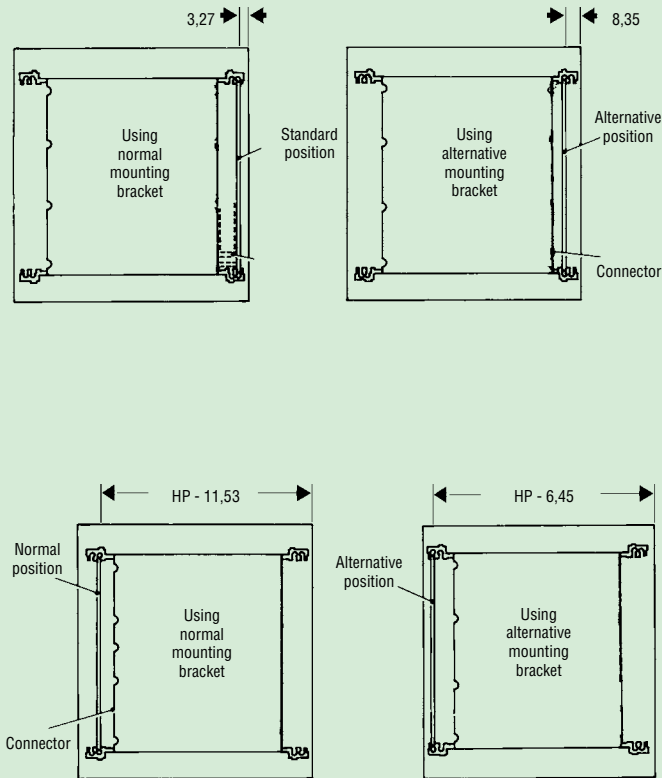


160mm modules fit to four piu guides **950-232664E** (KM6-II)
220mm modules fit to four piu guides **950-232665C** (KM6-II)
Guides are supplied in Pks of 10.

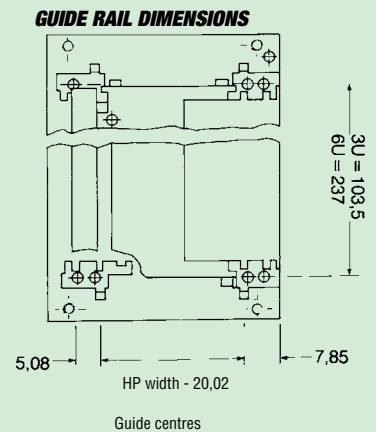
ORDER SEPARATELY

Product	Page
Left hand and right hand screens	16
Top and bottom screens	16
Alternative connector mounting brackets	15
Fixings	20

CIRCUIT BOARD MOUNTING OPTIONS (VIEWED FROM REAR)



1) Break off these tags when fitting connector on this side
2) Normal mounting bracket for normal card position. Order separately, alternative bracket, to move Eurocard 5,08mm to the right



Connector type	B	C	D	E	F	G	H
DIM 'x'	7,6	9,4	9,4	14,4	11,3	16,3	11,3

ALTERNATIVE MOUNTING BRACKETS FOR CONNECTORS

When the alternative card position is employed (without screening), alternative mounting brackets for the connectors should be ordered. Normal mounting brackets are supplied with all 2 and 4 rail plug-in units.

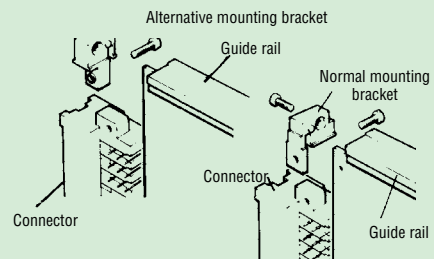
Contents of kits

Description	Qty.	Material/Finish
Mounting brackets	10	Mazak 3
Fixings		

ORDERING INFORMATION

Description	Order code
Alternative mounting bracket	174-13020

Alternative mounting brackets for connectors



Supplied with all plug-in units

LEFT HAND SIDE SCREENS

These screens slot into the plug-in unit guide rail. The PCB is moved over to the next slot position, with an alternative connector/PCB mounting bracket utilised. These mounting brackets are supplied with each left hand screen kit.

NORMAL RIGHT HAND SIDE SCREENS - 2 RAIL VERSION

These wrap around screens bolt to the guide rails and give full protection to the PCB mounted components.

NORMAL RIGHT HAND SIDE SCREENS - 4 RAIL VERSIONS

These screens slot in the right hand guide rails and enclose the full area on the right hand side within the unit.

ALTERNATIVE RIGHT HAND SIDE SCREENS - 2 RAIL

Similar to the standard but narrower to take into account the room necessary to plug the unit immediately to the left of a divider kit in a 6U subrack.

ALTERNATIVE RIGHT HAND SIDE SCREENS - 4 RAIL

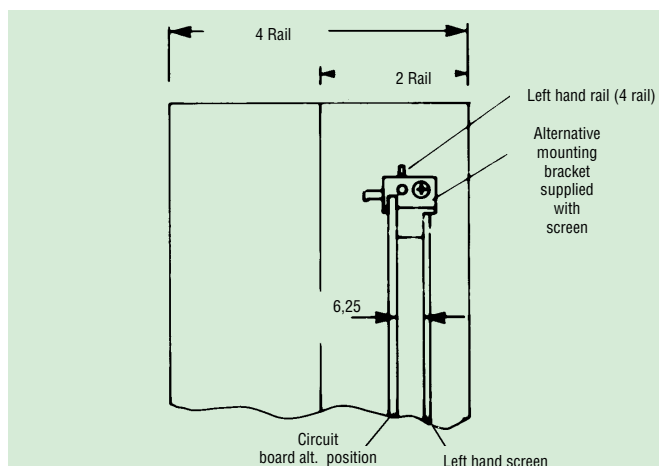
These are used instead of the standard screen when the unit is to be fitted immediately to the left of a divider kit in a 6U subrack.

TOP AND BOTTOM SCREENS - 4 RAIL

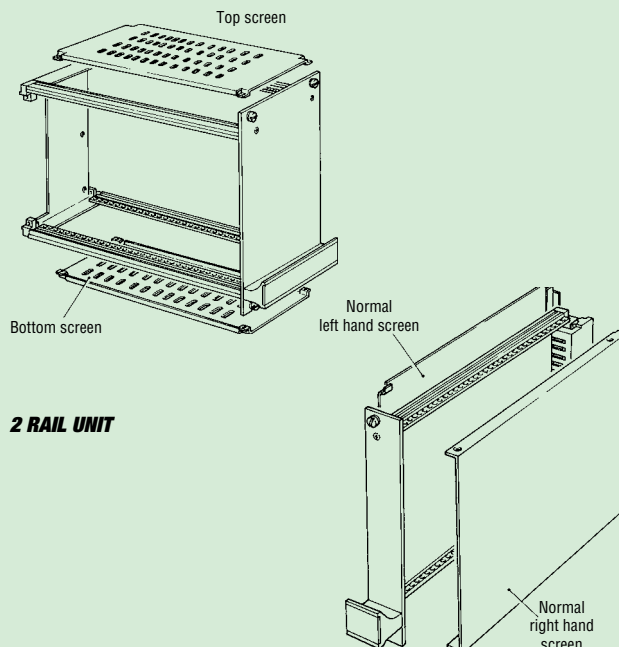
Top and bottom screens give protection over the full length of the plug-in unit and are pierced for ventilation. Fixing is by four and six screws directly into pre-tapped holes in the guide rails.

Contents of kits

Description	Material/Finish
1 top, 1 bottom;	0,5mm PVC clad pre-coated steel
All fixings	

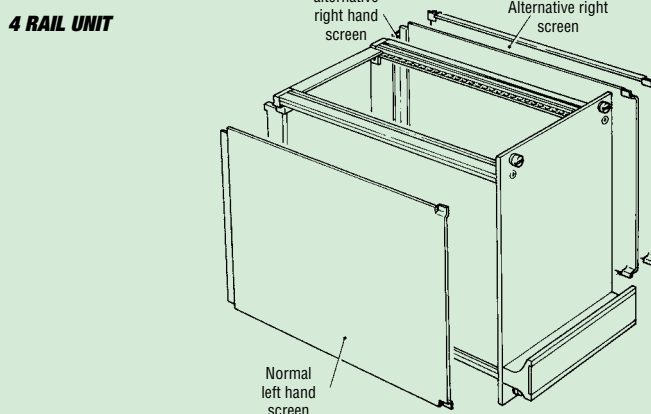


Standard right hand screens (viewed from the rear)



2 RAIL UNIT

Top and bottom screens



4 RAIL UNIT

Left and right hand screens

3U 2-RAIL PLUG-IN UNIT SCREENS – ORDERING INFORMATION (for 6U screens, please contact sales office)

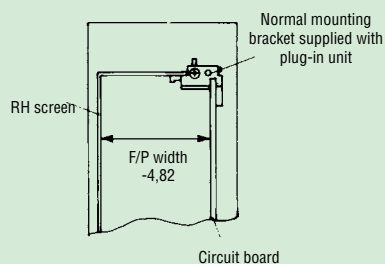
Width	Left hand screen		Standard right hand screens		Alternative right hand screens	
	160mm	220mm	160mm	220mm	160mm	220mm
3HP	174-13021	174-12645				
4HP			174-13023	174-12647	-	-
5HP			174-13024	-	174-13023	174-12647
6HP			174-13025	174-12648	174-13024	-

3U 4-RAIL PLUG-IN UNIT SCREENS – ORDERING INFORMATION (for 6U screens, please contact sales office)

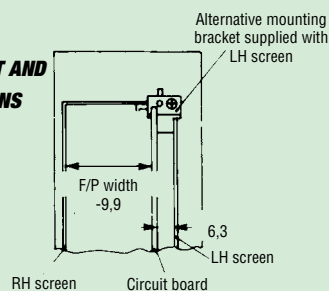
Width	Top & Bottom Screens		Left hand screen		Standard right hand screens		Alternative right hand screens	
	160mm	220mm	160mm	220mm	160mm	220mm	160mm	220mm
7HP	-	-	174-13021	174-12645	-	-	174-13025	174-12648
8HP	-	-			174-13027	-	-	-
9HP	-	-			-	-	174-13027	-
10HP	174-12965	174-12639	174-13021	174-12645	174-13035	174-12649	174-13021	174-12645
12HP	174-12966	-						
14HP	174-12967	-						
21HP	174-12968	174-12640						
24HP	174-12969	-						

6U - COMPATIBLE SCREENS

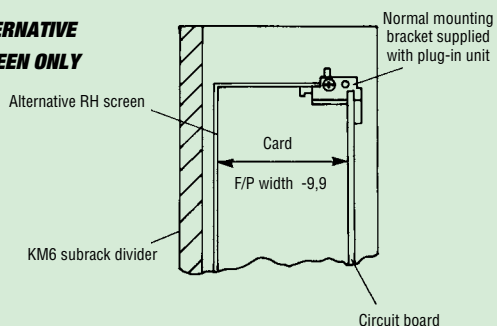
2 RAIL WITH RIGHT HAND SCREEN ONLY



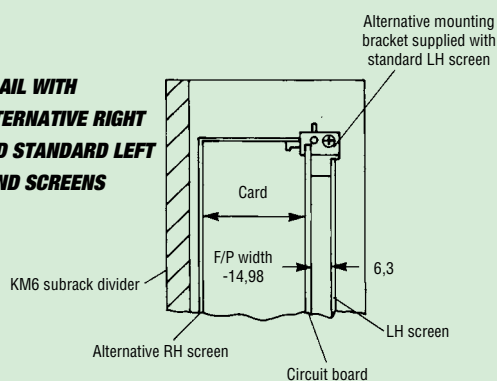
2 RAIL WITH RIGHT AND LEFT HAND SCREENS



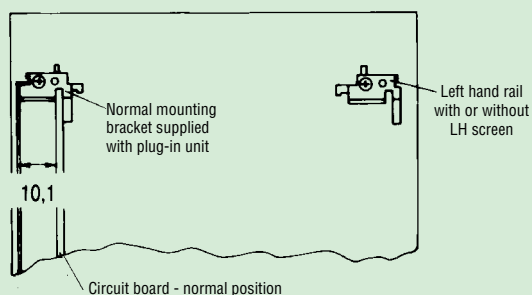
2 RAIL WITH ALTERNATIVE RIGHT HAND SCREEN ONLY



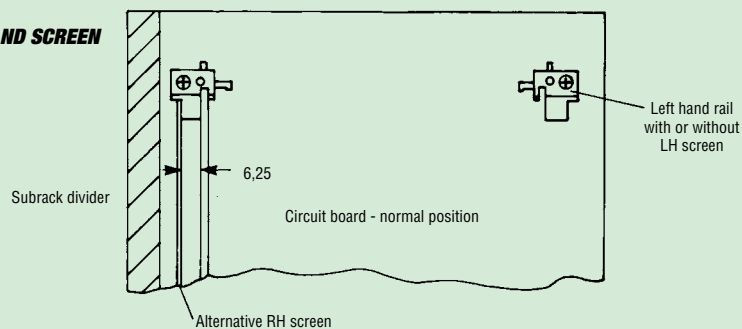
2 RAIL WITH ALTERNATIVE RIGHT AND STANDARD LEFT HAND SCREENS



4 RAIL WITH RIGHT HAND SCREEN



4 RAIL WITH ALTERNATIVE RIGHT HAND SCREEN



Note: On 4 rail units, when fitting any right hand screen, the circuit board can only be the normal position

Enhanced plug-in units – 2 Rail

160MM AND 220MM DEPTH

Supplied in kit form, the KM6-II extruded plug-in unit offers strength and simple assembly.

Features

- Plug-in units with normal or high level screening
- 3U x 160mm or 3U x 220mm, various widths
- Electrical continuity between all components
- KM6-II modules with mechanical strength for heavy components
- Good thermal properties and electromagnetic shielding between neighbouring system components
- Front panels with anodised front face, chromated rear face
- Compatible with DIN 41494 / IEC 60297-3

Construction is based on a conductive extruded side plate offering new facilities. Right hand covers, with a rear cut-out for DIN 41612 connectors, slot into angled grooves in the extrusion and are retained positively at the rear of the module.

On high screening level versions, additional fixings are provided at the front and rear to maintain limited slot lengths. Metal inserts are provided for electrical continuity when fitting to the subrack. Features are provided in the extrusion for two x 160mm tapped strips offering facilities for mounting components.

Single Eurocard/connector assemblies can be attached with separate metal mounting brackets.

These modules mount to two PCB guides: 950-232662J (PK.10) for the 160mm deep module or 950-232663G (PK.10) for the 220mm deep version.

Contents of kit

Description	Qty.	Material/Finish
Front panel	1	2,5mm Aluminium alloy, clear anodised front face, chromated rear, horizontal grain
Side extrusion	2	Aluminium alloy, unfinished
Top, side and rear covers	1	1mm galvanised steel
Handle	1	Luranyl 2452/1, black
Ident label	1	1,5mm aluminium, anodised
Fixings		
Assembly instructions		

The normal version has plastic inserts, the higher level version metal inserts.

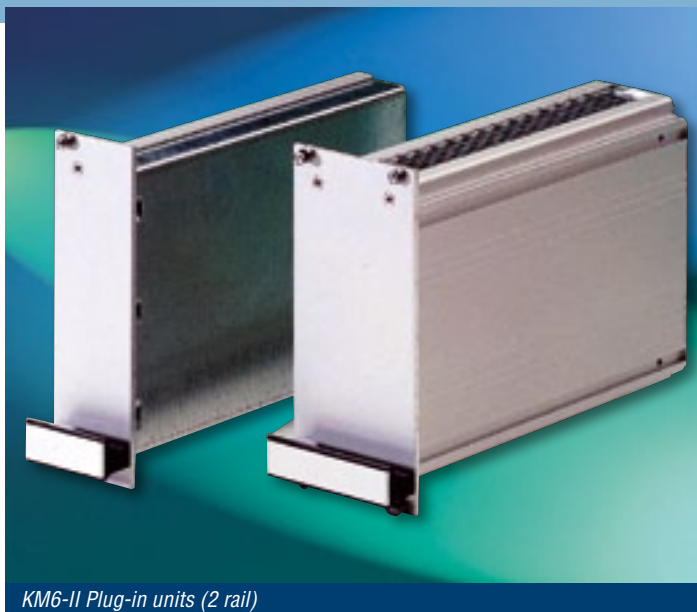
ORDERING INFORMATION

Description: 2 Rail module - 160mm deep version				Order codes	
Height	Width	Front panel	PCB component	Normal	High level
	HP	width mm	height max.	version	screening
3U	6	30,08	12,6mm	951-263113	951-263117
	7	35,16	17,7mm	951-263114	951-263118
	8	40,24	22,8mm	951-263115	951-263119
	10	50,40	32,9mm	951-263116	951-263120

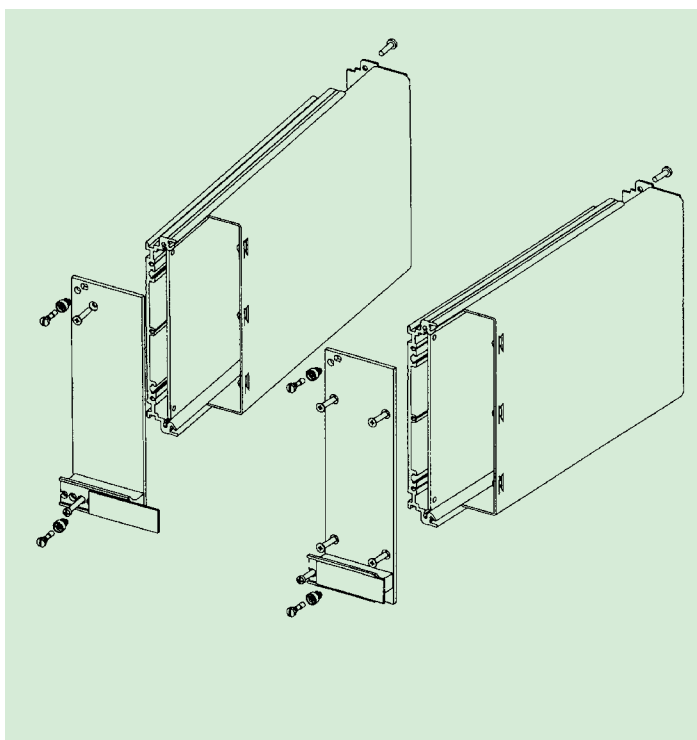
Description: 2 Rail module - 220mm deep version					
3U	6	30,08	12,6mm	951-263903	951-263906
	8	40,24	22,8mm	951-263904	951-263907
	10	50,40	32,9mm	951-263905	951-263908

ORDER SEPARATELY

Metal front panel bush	pk 100	953-236506
PCB/connector mounting brackets	pk 5 pr.	951-263755
Tapped strip M2,5 x 160mm	pk 10	951-263756
Tapped strip M2,5, 42HP wide	1	950-202739



KM6-II Plug-in units (2 rail)



Enhanced plug-in units – 4 Rail

160MM AND 220MM DEPTH

Supplied in kit form, the KM6-II extruded plug-in unit offers strength and simple assembly.

Features

- Plug-in units with normal or high level screening
- 3U x 160mm or 3U x 220mm, various widths
- Electrical continuity between all components
- KM6-II modules with mechanical strength for heavy components
- Good thermal properties and electromagnetic shielding between neighbouring system components
- Front panels with anodised front face, chromated rear face
- Compatible with DIN 41494 / IEC 60297-3

Construction is based on two conductive extruded side plates offering new facilities. Ventilated top and bottom covers slide into angled grooves in the extrusions. Rear covers, with a cut-out for DIN 41612 connectors, screw to the side extrusions.

On high screening level versions, additional fixings are provided at the front and rear to maintain limited slot lengths. Metal inserts are provided for electrical continuity when fitting to the subrack.

Features are provided in the extrusion for two x 160mm tapped strips offering facilities for mounting components. Single Eurocard/connector assemblies can be attached with separate metal mounting brackets.

These modules mount to four PCB guides: 950-232662J (PK.10) for the 160mm deep module or 950-232663G (PK.10) for the 220mm deep version.

Contents of kit

Description	Qty.	Material/Finish
Front panel	1	2,5mm Aluminium alloy, clear anodised front face, chromated rear, horizontal grain
Side extrusion	2	Aluminium alloy, unfinished
Top, bottom and rear covers	1	1mm galvanised steel
Handle	1	Luranyl 2452/1, black
Ident label	1	1,5mm aluminium, anodised
Fixings		
Assembly instructions		

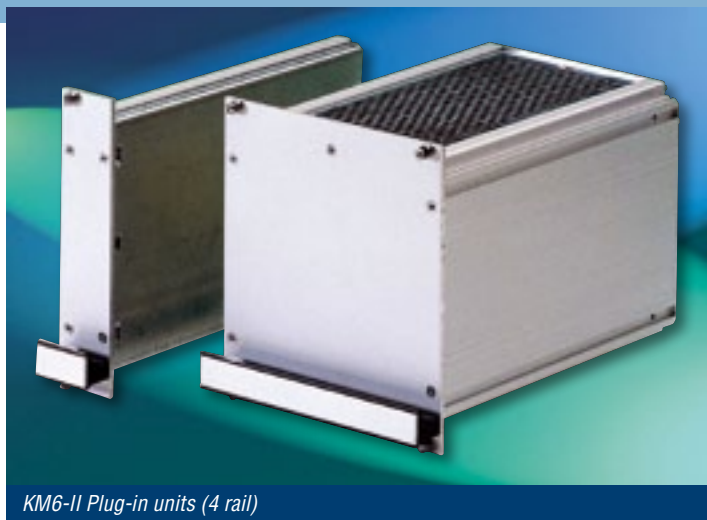
The normal version has plastic inserts, the higher level version metal inserts.

ORDERING INFORMATION

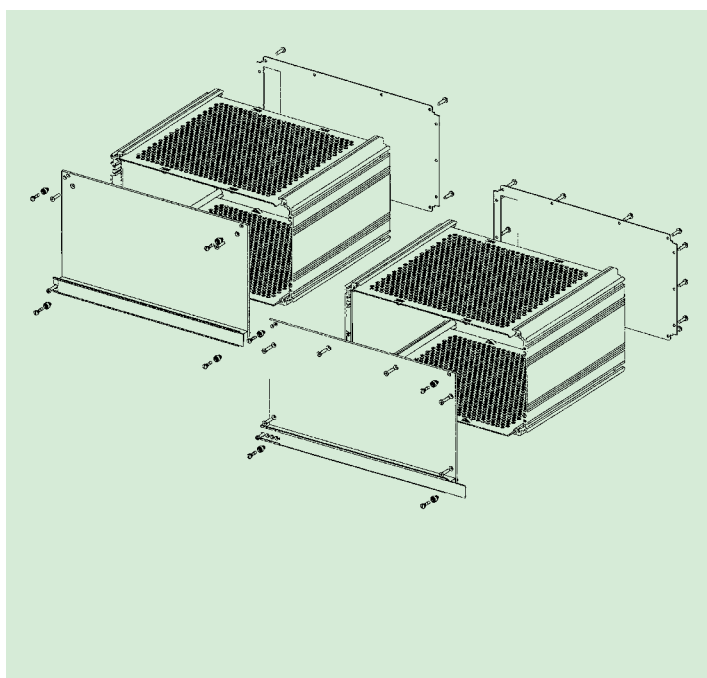
Description: 4 Rail module - 160mm deep version				Order codes	
Height	Width	Front panel	PCB component	Normal	High level
	HP	width mm	height max.	version	screening
3U	12	60,56	39,2mm	951-263121	951-263126
	14	70,72	49,3mm	951-263122	951-263127
	21	106,28	84,9mm	951-263123	951-263128
	24	121,52	100,1mm	951-263124	951-263129
	42	212,96	191,6mm	951-263125	951-263130
Description: 4 Rail module - 220mm deep version					
3U	12	60,56	39,2mm	951-263909	951-263913
	14	70,72	49,3mm	951-263910	951-263914
	21	106,28	84,9mm	951-263911	951-263915
	24	121,52	100,1mm	951-263912	951-263916

ORDER SEPARATELY

Metal front panel bush	pk 100	953-236506
PCB/connector mounting brackets	pk 5 pr.	951-263755
Tapped strip M2,5 x 160mm	pk 10	951-263756
Tapped strip M2,5, 42HP wide	1	950-202739



KM6-II Plug-in units (4 rail)

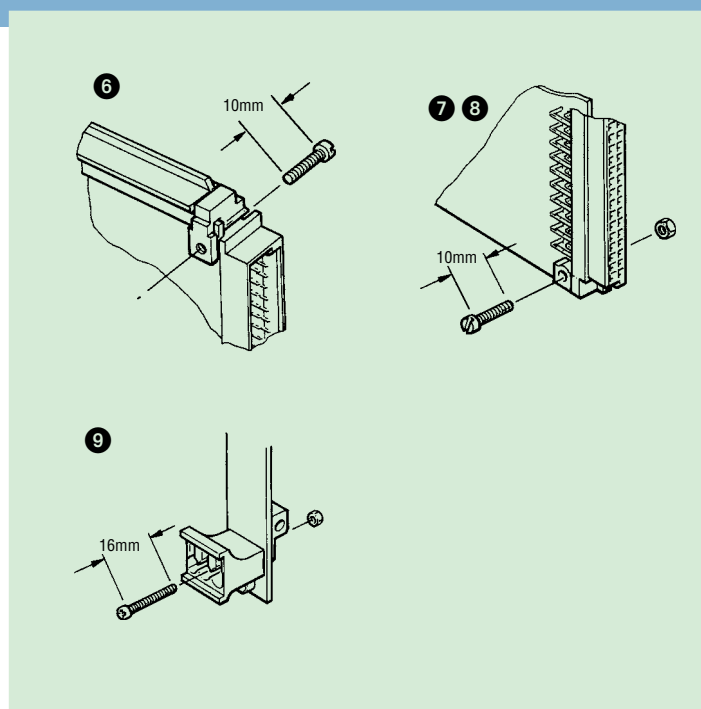


2 KM6 front panels and plug-in units

PLUG-IN UNIT AND FRONT PANEL FIXINGS

ORDERING INFORMATION

Key	Function	Type	Qty.	Order code
6	Connector to mounting block	M2,5 x 10mm	100	41-20505
7	Connector to PCB	M2,5 x 10mm	100	41-20505
8	Nut for above	M2,5	100	27-1319
9	Handle to front panel	M2,5 x 16	100	174-63105



MODULE GUIDE RAILS

Available to purchase separately are the module guide rails used on, the standard 2-rail and 4-rail plug-in units. Supplied singly in 160mm or 220mm lengths.

MATERIAL/FINISH

Aluminium extrusion.

ORDERING INFORMATION

Description	Ordercode
160mm	174-39378
220mm	174-39377



160mm/220mm Module Guide Rails

KM6 Shielded Front Panels

BLANKING FRONT PANELS

These panels can be used to fill unused slots or where no handle is necessary. The versions with pre-location pin interface with a pierced strip in the front extrusion to prevent sideways movement due to spring pressure.

- Latest industry standard front panel geometry
- Stainless steel fingers
- Clear chromate finish or with polyester overlays
- Full custom service available
- With or without pre-location pin

Screws and retaining inserts (metal or plastic) should be ordered separately - supplied in packs of 100

Contents of kit

Description	Qty.	Material/Finish
Front panel	1	Aluminium extrusion ,Clear chromate
EMC finger strip (fitted)	1	Stainless steel
Overlay (if fitted)	1	0,2mm polyester Light grey

ORDERING INFORMATION

Without pre-location pin

Nominal Height	Nominal Width	Chromate finish Order Code	With overlay Order Code
3U	4hp	951-263991	951-150000
	5hp	951-263993	951-150001
	6hp	951-263995	951-150002
	8hp	951-263997	951-150003
	10hp	951-263999	951-150004
	12hp	951-264001	951-150005
6U	4HP	951-264003	951-150006
	5HP	951-264005	951-150007
	6HP	951-264007	951-150008
	8HP	951-264009	951-150009
	10HP	951-264011	951-150010
	12HP	951-264013	951-150011
9U	4hp	951-263974	951-150045

With pre-location pin

3U	4HP	951-150012	951-150019
	5HP	951-150013	951-150020
	6HP	951-150014	951-150021
	8HP	951-150062	951-150065
	10HP	951-150063	951-150066
	12HP	951-150064	951-150067
6U	4HP	951-150015	951-150022
	5HP	951-150016	951-150023
	6HP	951-150017	951-150024
	8HP	951-150068	951-150071
	10HP	951-150069	951-150072
	12HP	951-150070	951-150073
9U	4HP	951-150018	951-150074

FRONT PANEL FASTENINGS: CAPTIVE SCREWS AND BUSHES

Ordering information

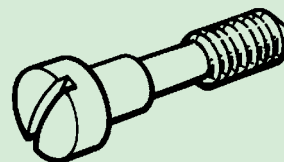
Description	Qty	Order code
Front panel screws	100	953-236510
Front panel to subrack, knurled thumb screw M2,5 x 11	100	953-236512
Front panel bush, plastic	100	953-236507
Front panel bush, conductive	100	953-236506



KM6-RF Blanking front panels

2 KM6 front panels and plug-in units

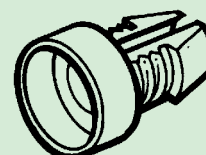
Front panel screw



Front panel bush



Conductive front panel bush



Captive screws and bushes

KM6 Shielded Front Panels

FIXED HANDLES

Providing backwards compatibility with existing front panels or where the use of injector/ extractor handles is not necessary or desirable.

- Latest industry standard front panel geometry
- Stainless steel fingers
- Clear chromate finish or with polyester overlays
- Full custom service available

The channel section provides good mechanical strength. The inserts in these kits are metal for maximum conductivity. Up to 8HP wide, panels have two fixing screws, 10 and 12HP have four.

We offer a comprehensive customising service in front panels and overlays.

Contents of kit

Description	Qty	Material/Finish
1 x front panel	1	Al extrusion, Clear chromate
1 x overlay (where fitted)	1	0,2mm polyester, Light grey RAL7035
1 x EMC finger strip	1	Stainless steel
Handles	1 on 3U, 2 on 6U	Luranyl2452/1 orequivalent Black
Handle ident	1 on 3U, 2 on 6U	Al alloy 1,5mm , Clear anodised or 1,25mm (with overlay)

Fixings and assembly instructions

ORDERING INFORMATION

Nominal dimensions		Order Code	Order Code
Height	Width	Chromate finish	With overlay
3U	4HP	951-263098	951-263199
	5HP	951-263102	951-263200
	6HP	951-263104	951-263201
	8HP	951-263108	951-263202
	10HP	951-263794	951-263796
	12HP	951-263110	951-263203
6U	4HP	951-263099	951-263219
	5HP	951-263103	951-263220
	6HP	951-263105	951-263221
	8HP	951-263109	951-263222
	10HP	951-263795	951-263797
	12HP	951-263111	951-263223



KM6-RF Front Panels - fixed handles

EJECTOR HANDLES

For use in situations where a high level of screening is required these extruded front panels are supplied complete with stainless steel fingers to make contact with adjacent panels and with the KM6-RF mounting angles.

- Good mechanical strength and high level of electromagnetic screening.
- Ejector handle provides assistance in removal of plug-in units with high retention force connectors
- Latest geometry to IEEE1101.10 minimises intrusion into the solder area of Eurocards
- Compatible with all KM6-RF and IEC 297-3 subrack front extrusions
- Available with chromate finish front face or with polyester overlay in RAL 7035 light grey

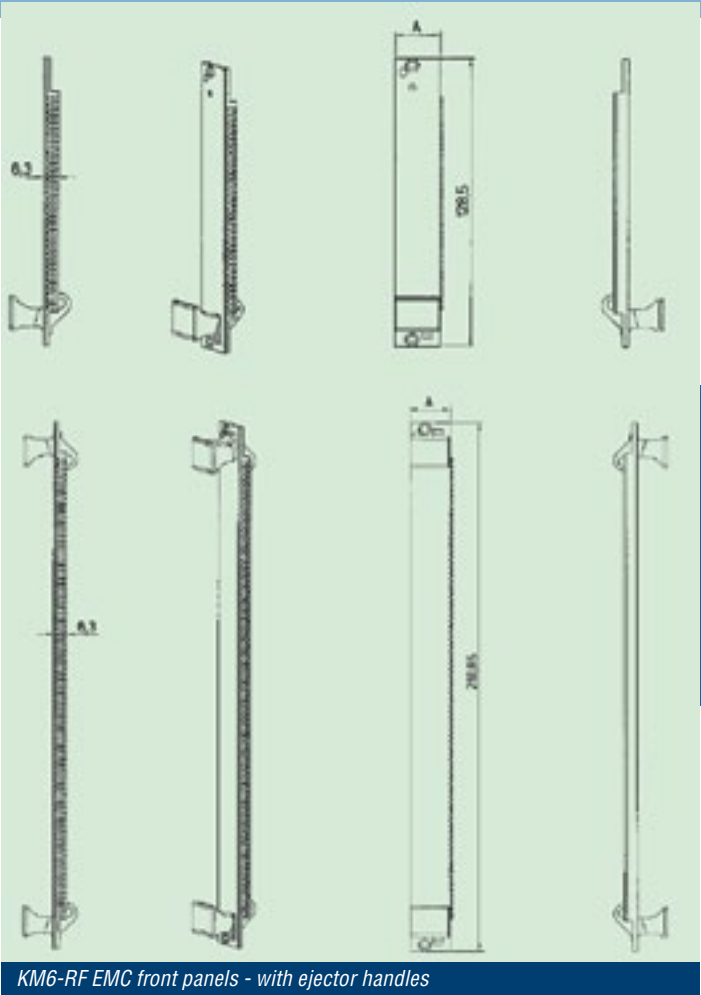
This range of extruded front panels meets the geometry associated with the latest mechanical standard, IEEE1101.10, having an overall depth of 6,3mm. This minimises the interference of the left side with the solder side of Eurocards. The stainless steel finger strip which is fitted to the right side interacts with neighbouring panels that have a similar geometry. At the subrack interface, it is necessary to have matching features in order to maintain the EMC performance across the front. The kit is supplied complete with die cast card mounting brackets and metal front panel screw retaining bushes for maximum conductivity to the subrack.

Contents of kit

Description	Qty	Material /Finish
Extruded front panel	1	Aluminium, all chromate finish or with front overlay, vertical grain
Set contact fingers	1	Stainless steel
Overlay (optional)	1	0,2mm polyester, RAL 7035 light grey
Handles:	1 on 3U, 2 on 6U	Makrolon 9425 black
Handle ident labels:	1 per handle	1,5mm aluminium, anodised or 1,25mm with overlay
Card mounting brackets	2	Zinc die cast
Retaining screws M2,5	2	Steel, chromed
Bushes	2	Metal, chromed
All fixings		

Ordering information

Nominal Height	Nominal Width	Width A in mm	RF front panel chromate finish Order code	RF front panel with overlay Order code
3U	4HP	19,92	951-263100	951-263750
	6HP	30,08	951-263106	951-263751
6U	4HP	19,92	951-263101	951-263771
	6HP	30,08	951-263107	951-263772



KM6 Shielded Front Panels

IEEE 1101.10/11 INJECTOR / EJECTOR PANELS

These front panels should be ordered in two parts; firstly the panel and secondly the handle. The panels are manufactured from extruded aluminium and are fitted with a stainless steel EMC finger strip. They are available with either a clear chromated finish or a light grey overlay. The inject / eject handles are IEEE 1101.10/11 compliant and available with or without extrusion location pin and with or without ESD / pre-location pin. There is also a choice of black or light grey colours.

Contents of kit

Description	Qty.	Material/Finish
Front panel	1	Aluminium extrusion ,Clear chromate
EMC finger strip (fitted)	1	Stainless steel
Overlay (if fitted)	1	0,2mm polyester Light grey

ORDERING INFORMATION

Height x Width	Clear chromate finish	Polyester overlay RAL 7035
3U	4HP	951-263840
	5HP	951-263841
	6HP	951-263842
	8HP	951-263843
	10HP	951-263844
	12HP	951-263845
6U	4HP	951-263846
	5HP	951-263847
	6HP	951-263848
	8HP	951-263849
	10HP	951-263850
	12HP	951-263851

IEEE 1101.10/11 INJECTOR/EXTRACTOR HANDLES

Features

- IEEE1101.10 and .11 compliant
- Various configurations for coding, pre-location and ESD protection available
- Ident location area
- Ganging option for use on multiple card plug-in units
- Push fit onto panel

This handle has the following possibilities:

With or without a front extrusion location pin, to maintain accurate location against the sideways pressure of EMC fingers.

With or without the ESD/ location pin. The ESD/location pin determines its position in the frame (ie top or bottom)

In black or light grey RAL7035

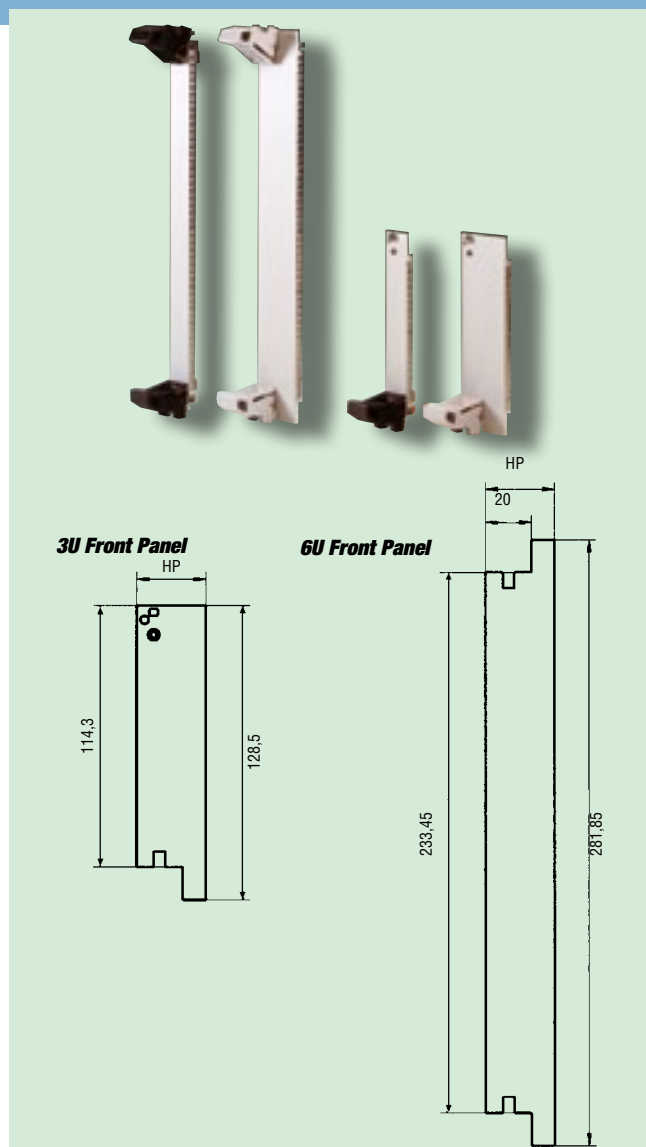
Coding keys should be ordered separately

Contents of kit

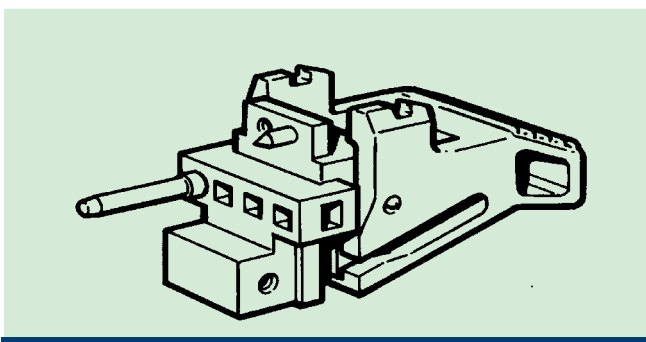
Description	Qty.	Material/Finish
Injector/ extractor (pre-assembled)		
Handle moulding	1	Glass filled polycarbonate UL94-V0, Black or light grey RAL 7035
Die cast bracket	1	Zinc Bright nickel plate
Return spring	1	0,3mm stainless steel
ESD pin (optional)	1	Stainless steel

ORDERING INFORMATION

Colour	ESD/location Pin	Extrusion pre-location pin	Order Code
Black, top C.B.A.	Yes	Yes	959-278296
Black, bottom F.E.D.	Yes	Yes	959-278295
Black, top and bottom	No	Yes	959-277048
Black, top C.B.A.	Yes	No	959-278298
Black, bottom F.E.D.	Yes	No	959-278297
Black, top and bottom	No	No	959-277053
Light grey, top C.B.A.	Yes	Yes	959-278300
Light grey, bottom F.E.D.	Yes	Yes	959-278299
Light grey, top and bottom	No	Yes	959-277049
Light grey, top C.B.A.	Yes	No	959-278302
Light grey, bottom F.E.D.	Yes	No	959-278301
Light grey, top and bottom	No	No	959-277060



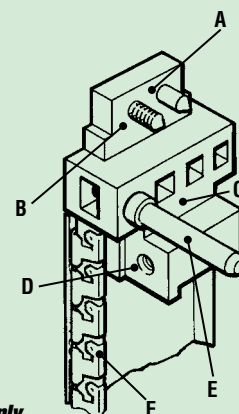
Shielded front panels – IEEE 1101.10/11 compliant



Injector / Ejector Handles

This table is intended to help you select the most suitable combination of handles and front panels.

- Key**
- A** Pre-location pin
 - B** Captive screw
 - C** Coding peg locations
 - D** Card mounting
 - E** ESD/alignment pin
 - F** Front panel with EMC fingers



Stylised picture only

Shielded front panel and handle options

SHIELDED FRONT PANELS ACCESSORIES

FRONT PANEL CAPTIVE SCREWS AND BUSHES

For panel only situation where the width of the panel or type of panel requires additional fixing (Injector/extractors are supplied with screws) and complete panel kits.

- Positive retention
- Plastic or metal bushes

Contents of kit

Description	Material/Finish
Front panel fixings: Screws M2,5 x 11	
Front panel fixings: Bushes	Plastic, black
Front panel fixings: Bushes	Metal

ORDERING INFORMATION

Description	Qty.	Order code
Front panel screws	pk.100	953-236510
Front panel bush, plastic	pk.100	953-236507
Front panel bush, conductive	pk.100	953-236506

EMC SEALS – VERTICAL FINGER STRIP

This version clips onto IEEE1101.10 front panels, rack mounting angles or rear closing panels, providing electrical contact to neighbouring components. Select by nominal panel height.

Contents of kit

Description	Qty	Material/Finish
Vertical finger strip	10	Stainless steel

ORDERING INFORMATION

Description	Qty.	Order code
Vertical seal for 3U	pk.10	959-266523
Vertical seal for 6U	pk.10	959-266524

NORMAL PCB MOUNTING BRACKETS

The normal PCB mounting brackets are for use where front panels are mounted into IEC/DIN subracks and caseframes that require the conventional 2,54mm gap between the rear of the front panel and the PCB. Available in two versions; moulded in Noryl or zinc die-cast. The die cast version is now tapped in both axes, making assembly easier and quicker.

Contents of kits

Description	Qty.	Material
Normal bracket	10	Luranyl 2452/1, green or die cast zinc

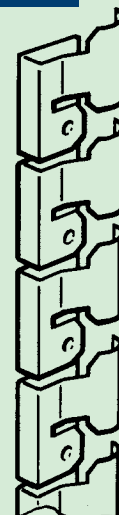
ORDERING INFORMATION

Description	Qty	Order code
Normal brackets (plastic) and fixings	10	173-232669
Normal brackets (metal) and fixings	10	173-253258

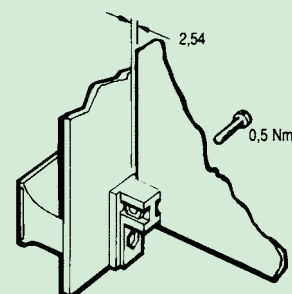
Captive screws and bushes



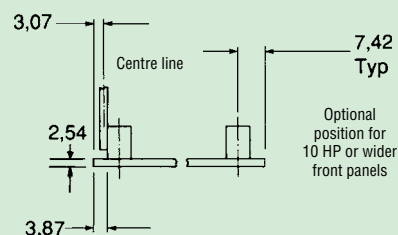
Vertical finger strip



Normal bracket



PLAN VIEW



Note: Plastics are adversely affected by solvents and care should be taken to avoid contamination of plastic brackets.

VXI MODULE

Features

- Normal and light duty
- Single and double width
- C and D size
- Easy access

In support of the VXIbus, Verotec offer screened modules in two standard forms.

NORMAL DUTY

This module has a relatively high screening capability, and is available in single and double widths, 'C' and 'D' sizes.

The double width version moves the circuit board to the right by one slot. This facility is likely to be needed where the skyline on the wiring side is greater than normal - when using wire wrapping assembly, or where additional components are required to be fitted on that side.

The module consists of a channel section front panel, incorporating ejector handles and card mounting brackets, ventilated left and right covers and EMC sealing. Connector screening is incorporated in the side covers. The Eurocard sized PCB provides the guide rail facility for the module as required in the specification. The construction of the side covers is such that access to the PCB can be simply gained by the removal of four screws.

In order to maintain electrical continuity between the metal side covers it is necessary to incorporate a row of plated through holes along the upper and lower edges of the PCB under the area covered by the RFI sealing strip. The spacing of these holes will obviously affect the degree of screening obtained from the module. In addition, four holes are needed to permit the passage of the fixing screws through the board (drilling details as shown). Continuity between the covers and the front panel is maintained by the incorporation of beryllium copper fingers. More fingers are used to maintain contact between the module and the backplane motherboard ground plane, and between neighbouring modules.

All metal components are conductively finished and the front panel has metal inserts to ensure good electrical contact between the module and the subrack.

The PCB is fitted to the front panel via metal brackets as standard, although plastic brackets are available if they are required.

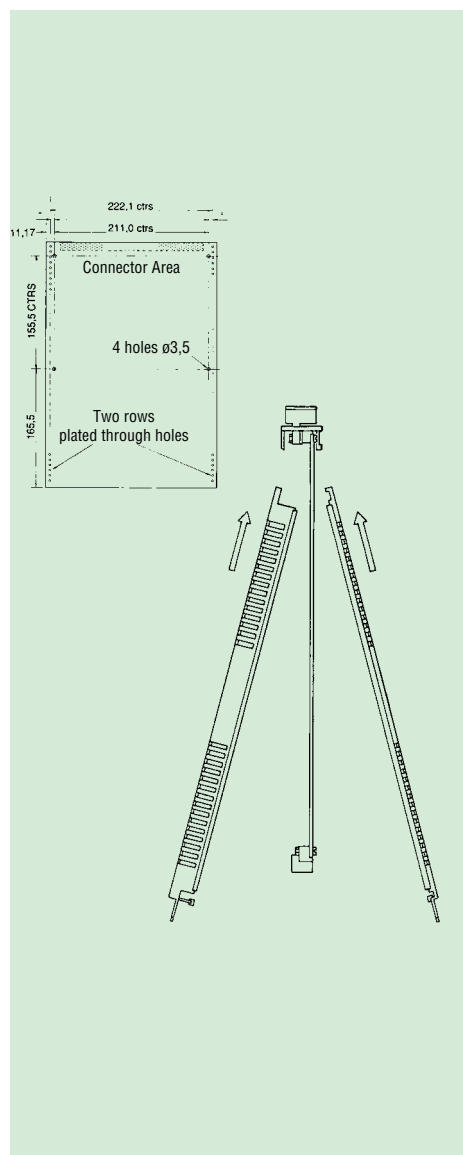
LIGHT DUTY Also in single 'C' size, the light duty module can be provided, without any EMC seals, offering a lower cost solution where EMC screening is considered less of a problem. This unit has our two-part front panel and can be upgraded by the addition of seals as needed. Connector Area 4 holes $\phi 3,5$ Two rows plated through holes.

CONNECTOR SHROUD

A connector shroud is available, in beryllium copper, that will enhance the screening performance when it is fitted to the fixed connector on the backplane.



VXI module



Contents of kits

Description	Material/Finish
Front panel-normal duty	Aluminium extrusion BS1474HE9TF, finish; conductive
Front panel - light duty	Facia 1,2 aluminium alloy BS1470
NS41/2H Etched and anodised inner conductive finish	1,2 aluminium alloy BS 1470 NS4 1/2H
Side panels	0,9mm zintec steel, zinc and clear passivate

ORDERING INFORMATION

Description	Order code
'C' Size single - Normal duty module	207-203543
'C' Size double - Normal duty module	207-203544
'D' Size single - Normal duty module	207-222524
'C' Size single - Light duty module	207-222002
Beryllium copper fingers (strip 84)	930-238243
Channel section sealing strip (1 metre)	174-43905
Connector shroud	207-203611

Typical shielding performance - normal duty modules

These performance figures were obtained by testing a representative sample from production batches. The tests carried out were in accordance with MIL-STD-285, modified where necessary due to the nature of the module. The figures are given as a guideline. Any additions or modifications will have an effect upon the shielding performance and it is, therefore, essential that these units are retested once the final unit is complete.

Performance figures were obtained reading from the right hand (component) side of the module. The figures stated were obtained from our in-house test facility.

VXI COMPATIBLE FRONT PANEL KITS

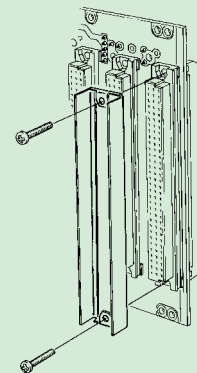
These panels are available separately from the module for situations where EMC screening of the individual pcb is not required, but it is necessary to maintain the overall subrack's RFI screen. Available in the same variants as the VXI modules, the kits include ejector handles, mounting hardware, fixings and EMC fixings.

Ordering information

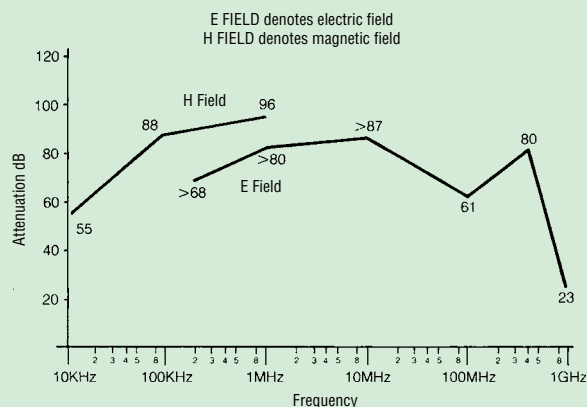
Description	Order code
6U x 6 HP Normal duty	207-227109
6U x 12 HP Normal duty	207-227110 ^M
9U x 6 HP Normal duty	207-227111 ^M
6U x 6 HP Light duty	207-227113 ^M

^M = Denotes minimum order quantity, please contact our sales office.

For details on VXI backplanes and systems, please refer to the **Backplanes & Systems** brochure / section."



VXI Connector Shroud



VXI module shielding performance



VXI compatible front panel kits



VXI Microrack Development System

