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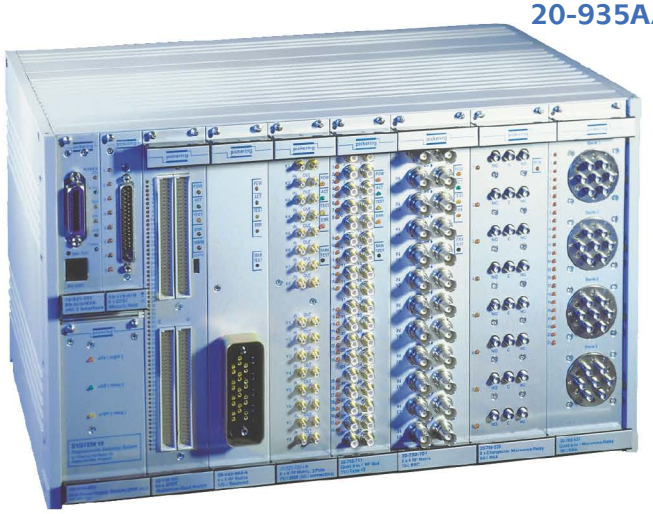
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Find the *Pickering 20-935A* at our website: *Click HERE*

20-935A/936A
System 10/20 Mixed Case

- Compact Benchtop Case Which May Be Rack Mounted
- Available in 3U and 6U Versions
- Choice of Module Access at Front or Rear of Case
- Use With Any Combination Of System 10 or 20 Modules
- Includes Complete Pre-Wired System Backplane
- Special Model Versions Available
- DIN 41494 (IEC 297) Compatible



System 10/20 Mixed Case type 20-935A-001, viewed from front panel (with 12/72 split). The hinged rack mount brackets may be pulled out for cabinet mounting.

Cases Overview

Case types 20-935A/936A are intended for applications requiring the use of both System 10 and System 20 switching modules within the same unit. These cases are suitable for both benchtop and rack mounting, with either front or rear access versions to suit all cabling needs.

The 20-935A/936A Switching System Cases should be chosen when both System 10 and 20 switching modules are required or for when just System 20 modules will be used.

The case is suitable for both benchtop and rack mount use (using built in rack mount brackets). It is supplied complete with pre-wired internal backplanes and module guides to match the configuration required, unused slots have blanking panels inserted.

6U System 10/20 Case

Case type 20-935A has the most capacity, the standard cases are available with the following standard splits:

- 24/60 Split (24HP for System 10, 60HP for System 20)
- 42/42 Split (42HP for System 10, 42HP for System 20)
- 12/72 Split (12HP for System 10, 72HP for System 20)

However the case may be specially ordered to match any combination of switching modules.

3U System 10/20 Case

Case type 20-936A, is a smaller 3U case and is available in only one configuration: 12HP for System 10, 18HP for System 20. Allowing up to 2 x System 20 modules and 2 x System 10 modules to be used in a compact 3U case.

Front or Rear Access

Cases are available with a choice of front or rear switching module loading:

Front Access Cases are generally popular for smaller systems where the unit will be used on a benchtop, the switching modules plug into the front of the case.

Rear Access Cases are usually more convenient for larger systems where a complete test or data acquisition system is being assembled into a cabinet. The switching modules plug into the rear of the case, keeping all wiring inside the cabinet, leaving the front panel uncluttered. This case version has a simple front panel with power indicator (same as illustration of 10-934A-002 on System 10 case data sheet).

Expansion Modules

If the number of modules you require does not fit within a standard case or if you wish to split the switching system into two or more cases (e.g. to keep high voltage modules away from low voltage types) then there are 2 options:

- Simply treat each case as a separate system, each with it's own 10-921-001 interface module - This is the preferred option.
- Use 10-925 expansion modules. Here the case with the 10-921-001 interface module acts as the master with all other cases acting as slaves. Each case must contain it's own power supply unit plus expansion module/s. Expansion modules must be used in pairs, the expansion cable linking them can be ordered to the length required.



Model illustrated above is type 20-936A-001 this is used for smaller systems requiring both System 10 and System 20 modules.

ISSUE 4, MAY 2007

Serviceability

All Pickering Interfaces case types are passive, they contain no active components. Therefore virtually all maintenance and servicing can be done by simple module swapping, without having to remove the case.

Note: Many details here are the same as for the System 10 Case type 10-930, so please refer to that data sheet for further information.

System 10/20 Backplane

The 20-935A/936A Mixed System Case contains the standard System 10/20 backplane which provides all modules with power and communication. Each slot has a DIN 41612 64 way connector. All slots are arranged on a 0.6 Inch pitch (each module may take from 2 to 7 slots).

System 10 Analogue Bus Is used by multiplexer modules to carry analogue signals. 10 poles, each pole separately screened, plus "settled" line are available.

System 20 Analogue Bus Is used by multiplexer and matrix modules to carry analogue signals. 24 poles, each pole separately screened, plus "settled" line. A special analogue bus backplane routing up to 128 poles is available.

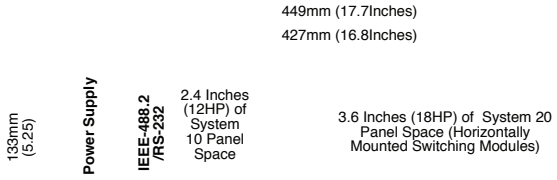
Backplane Connector Type DIN 41612 type A/C (64 way), rated for 500 insertions.

Revised Power Supply

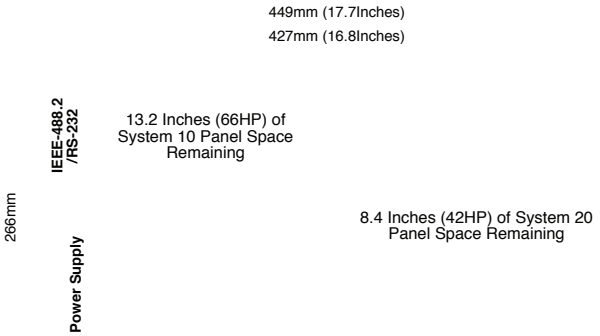
From March 1999 onwards all power supply modules (10-910) will be 12HP Wide. Prior to this date rear access power supplies were 18 HP wide. This change now gives rear access cases 6HP more room.

Case Schematic Diagrams

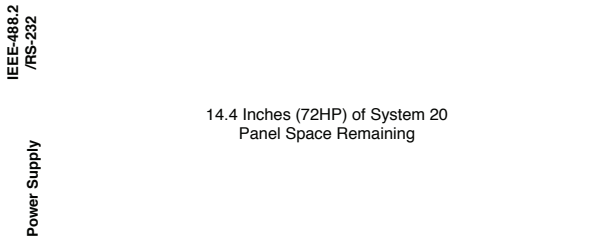
The case diagrams illustrate all case variants showing how much switching module space is available for each type. These will allow the most suitable case type to be selected. The standard 6U case is split 24/60, many other configurations are available, for instance the 12/72 split shown. Please contact factory if you require further information.



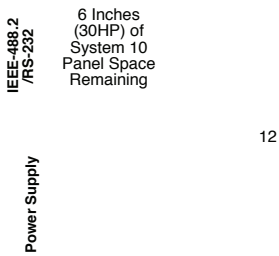
3U Case 20-936A-001 and 20-936A-002 (System 20 modules mount horizontally)



Case 20-935A-001-42/42 or 20-935A-002-42/42

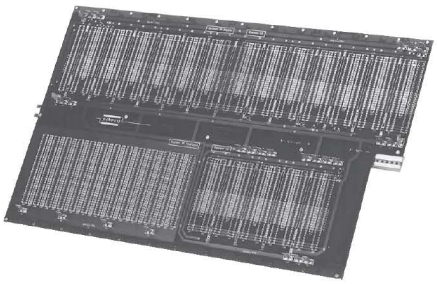


Case 20-935A-001-12/72 or 20-935A-002-12/72



Case 20-935A-001-24/60 or 20-935A-002-24/60 (This split is the prefered option)

Internal Backplane PCB from 20-935A Case



Built In Rack Mounting Ears

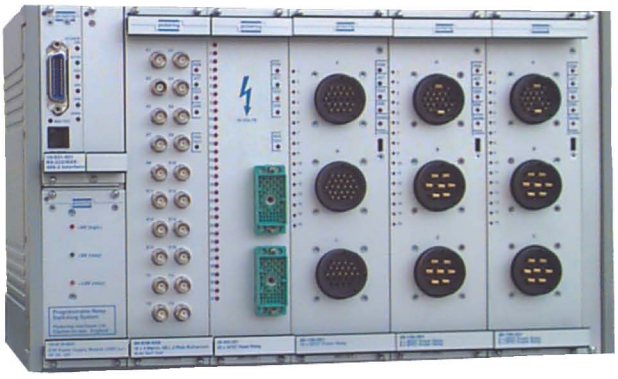
The case has built -in rack mounting ears (see picture). These allow the case to be either used on a benchtop or in a cabinet with the ears pulled out.







Typical Examples of Model 20-935A-001 with 24/60 Split



Typical Example of Model 20-935A-001 with 12/72 Split

Expansion, Power Supply & Earthing Details

Refer to the 10-930A System 10 Case data sheet for further information.

Dimensional Data

Cases conform to DIN 41494 Part 5, IEC 297 Sec 2, see diagrams above, for further data please contact Pickering Interfaces.

Case Colour:	Light Grey
Case Weight:	Depends upon case number and type of modules being used.
Case Width:	449mm
Case Height:	6U (266mm)
Case Depth:	250mm

For rear access case types allow extra space for switching module protruding connectors (possibly up to 100mm).

Environmental Specification

Operating Temperature	0°C to 50°C.
Storage Temperature	-20°C to 75°C.
Humidity	95% Non Condensing.
Cooling Requirements	Natural Convection, No Internal Fan.

Product Order Codes

6U System 10/20 Case, Front Access	**20-935A-001**
6U System 10/20 Case, Rear Access	**20-935A-002**

Please specify the System 10/System 20 split when ordering

The preferred option is 24/60	**24/60**
	42/42
	12/72

For example 20-935A-002-24/60.

3U System 10/20 Case, Front Access	**20-936A-001**
3U System 10/20 Case, Rear Access	**20-936A-002**

Additional Product Order Codes

System 10/20 Expansion Module	**10-925-001**
Expansion Cable Assembly (2m length)	**10-953-020**

Other cable lengths may be specified e.g. -010 (1m), -005 (0.5m)
(Expansion Modules must be used in pairs).

PCB Card Guide	**10-941-001**
Plug-In Module Card Guide	**10-941-002**
Blanking Panel (3U) 3HP:	**10-942-003**
Blanking Panel (3U) 6HP:	**10-942-006**
Blanking Panel (3U) 12HP:	**10-942-012**
Blanking Panel (3U) 21HP:	**10-942-021**
Earthing Stud (M8) 6HP Panel (3U)	**10-942-903**
Blanking Panel (6U) 3HP:	**20-942-003**
Blanking Panel (6U) 6HP:	**20-942-006**
Blanking Panel (6U) 12HP:	**20-942-012**
Blanking Panel (6U) 21HP:	**20-942-021**
Earthing Stud (M8) 6HP Panel (6U)	**20-942-906**

All switching systems are shipped with blanking panels installed in unused slots.

Latest Details

Please refer to our Web Site for Latest Product Details.
www.pickeringtest.com

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