M4 Subrack

The M4 provides a compact 3RU enclosure that can be used to meet a variety of copper and fibre stand-alone system needs.

The M4 has been designed to provide a horizontal subrack to meet the needs of compact installations. The unit has four slots, for mounting of Avara cards.

It has an in-built power supply, therefore removing the need to purchase additional power supply cards, which frees up all four slots in the subrack for transport, multiplexer and interface cards.

The M4 supports dual power inputs, for greater reliability of operation. In addition, three dry-contact summary alarm outputs are available, which represents the A, B and D alarms of the Nokia and Avara multiplexer equipment.

With an emphasis on compact installation, the unit is equipped with an optional in-built RJ45 patch panel, for the distribution of services. This eliminates the need for additional IDC hardware, and dramatically reduces cabling time on-site. The result is a rapid on-site installation, with minimal complexity.

A total of sixteen RJ45 connectors are available for distribution of services. These can be mapped to any of the Nokia and Avara cards installed in the subrack.

Optical patching is also supported via two SC through-adaptors or two dual-LC through-adaptors.

Application – Loop protection of VF and Serial data.

The M4 can be equipped with Nokia's DB2LP, 2/4 wire VF E&M, and DIU V.110 cards, to deliver loop protected VF and V.110 channels.

Application – Loop protection in a private mobile radio environment.

The M4 can be equipped with Nokia's DB2LP pair of cards to deliver a loop protected n*64 kbps G.703 circuit to a radio base station.

Application – Multi-service access functionality.

The M4 can be equipped with Avara's DynaFlex Multiservice Access product line, DFX & DFS Transport units, DXC Cross Connect units and Nokia's Dynanet product line, to deliver fast Ethernet, E1 and TDM Services.

Technical Highlights

- 3RU Horizontal Subrack
- 4 Available Slots
- 16 x RJ45 Patch Panel
- 3 Contact Alarms Outputs (A,B,D)
- Dual Feed DC Power Supply
- -20 to -72 VDC Power Supply
- 90 to 264 VAC Power Supply
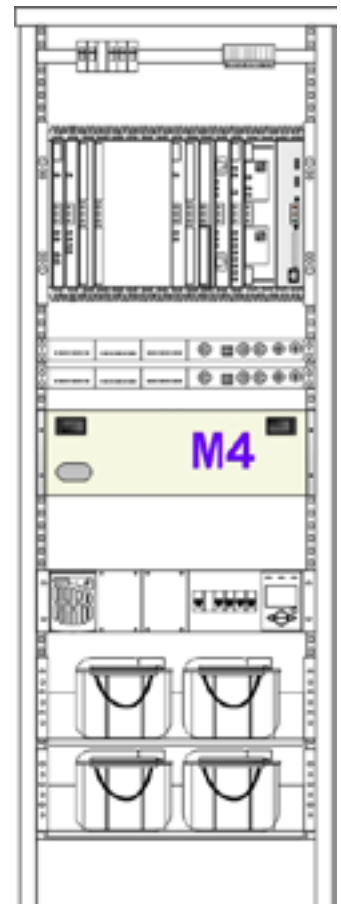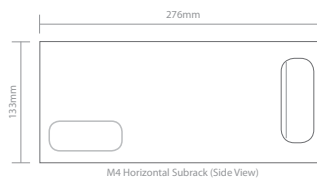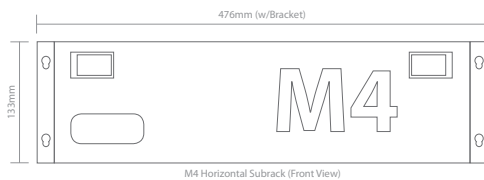

M4
Horizontal Subrack

M4 3RU Multiplex Chassis
(Single Integrated Power Supply)

Technical Specifications

AVARA TECHNOLOGIES

Model Order Code **DC Options** **AC Options**	P21014.01 P21014.04 (w/o patch panel) P21014.02 P21014.05 (w/o patch panel)	**Alarm Contacts**	Capable of Driving A&B Sub Rack Alarms
		Power Supply	-20 to -72 VDC 90 to 264 VAC
Mechanical Height Depth Width (wo/Brakcet) Width (w/Bracket) Maximum Equiping Space Weight	133mm 276mm 416mm 476mm 3RU (19" Rails) Approx 3.1kg	**MTBF**	65 Years
		Environmental Operating Temperature Relative Humidity	-20 °C to +65 °C 5-90% (Non-condensing)
		Standards	EN60950 Safety EN55022 Class A Emissions EN50082-2 Generic Immunity ETS 300 019-1-1 Operational ETS 300 019-1-2 Storage ETS 300 019-1-3 Transport
Supported Products Avara Technologies Nokia	DynaFlex, DFX, DFS, DXC* ENT, ESU, SIP30 Dynanet Product Family		

* The DXC product is currently only supported on the P21014.05 variant.

M4

476mm (w/Bracket)
133mm

M4 Horizontal Subrack (Front View)

276mm
133mm

M4 Horizontal Subrack (Side View)

M4

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