


## 8 Mbps Modular Indoor Unit



8 Mbps 4 slot Modular Indoor Unit (**CFM-8-MUX**) is designed to fully match various business requirements. The 4 IDU slots can be equipped with three types of interface modules: E1 for voice, V.35 and 2-port 10/100Base-T for data traffic. The 1st slot supports up to 8Mbps with 2Mbps step, and other three - up to 2Mbps. Available capacity combinations are as follows: 1x8Mbps, 6+2Mbps, 4+2+2Mbps, 4x2Mbps.

 [Radio specifications](#)

 [Management System](#)

CFM-8-MUX is compatible with SAF CFM LM radios supporting 8/16/34Mbps rate.

The entire IDU is a 1U high 230mm deep 19" rack mountable unit and is intended for use with external DC power supply.

The typical non-protected (1+0) link usually comprises 2 Indoor Units, 2 Outdoor Units, two antennas, coaxial cables for interconnection of IDU & ODU, and power supply units.

Typical applications:

- Access networks of service providers, ISPs, city carriers, CLEC and telecoms
- E1/E3 trunking in mobile networks (BS, BSC, MSC, etc.)
- Node B connection in 3G mobile networks
- Private networks of large enterprises, municipal/public authorities

TECHNICAL PARAMETERS	
Model name	CFM-8-MUX
Operating capacity	8 Mbps
Number of slots for modules	4
Optional interface modules/connectors	10/100Base-T Ethernet (RJ-45), E1 (RJ-45/BNC), V.35 and V.35-G.704
Port capacity configuration options	Slot 1: 0-8Mbps; Slots 2-4: 0-2Mbps; 2Mbps step
Compatibility with CFM radio	LM (8/16/34 Mbps rate)
MANAGEMENT	
TCP/IP	Web, SNMP, Telnet - local and remote
ASCII Terminal	Local
Alarm port	-
IDU front panel LCD and keypad	+
Service channel	+
SNMP monitoring/traps	+
Performance monitoring	-
Physical interface	DB-9 & RJ-45
Interface	RS232 & 10Base-T Ethernet
Loopback test facility	E1, V.35 interfaces, baseband modem, RF loopback
Network management	SAF Network Management System (NMS)

Engineering orderwire	via optional VoIP
<b>ELECTRICAL</b>	
Power supply	20 to 60 V, any polarity can be grounded
Power consumption, IDU	from 7.2 to 17W (according to capacity and modules installed)
Power consumption, ODU	less than 13W per ODU
Protection circuit	1.35A
Cable (IDU-ODU): single coaxial	up to 300 m long LMR 400 or up to 100 m long RG-213, N-type connectors/ up to 20dB attenuation @ 350 MHz
<b>ENVIRONMENTAL</b>	
Ambient temperature	-5°C to +45°C
Altitude	in accordance with climatic standarts
Humidity	5% to 95%
<b>MECHANICAL</b>	
HxWxD mm/weight kg/H in HU	44x482x270/1.7/1U (without modules)
<b>STANDARD COMPLIANCE</b>	ETSI, ITU
EMC	EN 301 489
Operational, ODU/FODU	EN 300 019, Class 4.1
Operational, IDU	EN 300 019, Class 3.1E
Storage, IDU & ODU/FODU	EN 300 019, Class 1.2
Transportation, IDU & ODU/FODU	EN 300 019, Class 2.3
Safety	EN 60950

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