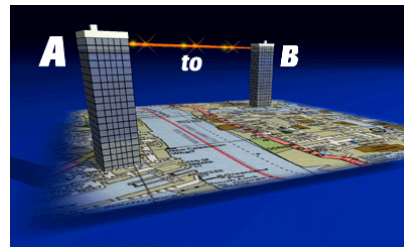


# CableFree

Wireless Excellence

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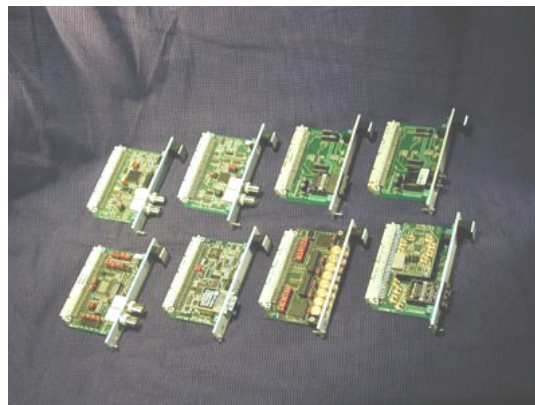
## Cablefree Interface Modules - Overview

### Interface Features

- Plug directly into CableFree FSO units or optional IDU
- Upgradeable bandwidth from 1.5Mbps up to 622Mbps
- Future-proof protection of communication hardware
- Used in all CableFree system types
- Fully field-upgradeable in minutes
- Reduced inventory & spares requirements
- Enables change-of-use and data formats
- All interfaces ITU & IEEE standards-compliant

### Applications

- Enterprise Voice & Data Networks
- Telecom Service Providers
- Broadcast Television
- CCTV Video



### Enterprise Network Data Interfaces

Interface Type	Order Code	Connectors	System Supported	Range Supported
<b>Data Networking</b>				
Ethernet 10BaseT	10M-RJ45	Twisted-pair RJ45	Access, 622, Gigabit	4,000m
Ethernet 10BaseFL	10M-MMST	Fibre-optic ST 850nm	Access, 622, Gigabit	4,000m
Fast Ethernet 100BaseTX	100M-RJ45	Twisted-pair RJ45	Access, 622, Gigabit	4,000m
Fast Ethernet 100BaseFX	100M-MMST	Fibre-optic ST 1310nm	Access, 622, Gigabit	4,000m
Gigabit Ethernet 1000BaseSX	1000M-MMSC	Fibre-optic SC 850nm	Gigabit	1,000m
Gigabit Ethernet 1000BaseLX	1000M-SMSC	Fibre-optic SC 1310nm	Gigabit	1,000m
Gigabit Fibre Channel	1062M-MMSC	Fibre-optic SC 1310nm	Gigabit	1,000m
4/16Mbps Token Ring	16M-MMST	Fibre-optic ST 850nm	622	2,000m
ATM 155Mbps	155M-MMSC	Fibre-optic SC 1310nm	Access, 622	4,000m
ATM 622Mbps	622M-MMSC	Fibre-optic SC 1310nm	622	2,000m
<b>Multiplex Voice &amp; Data</b>				
Ethernet 10Mbps + E1 (10+2) - 10BaseT	10M-RJ45/ E1-BNC	Twisted-pair RJ45 + 2xBNC 75ohm	622	2,000m
Ethernet 10Mbps + E1 (10+2) - 10BaseFL	10M-MMST/ E1-BNC	Fibre-optic ST 850nm + 2xBNC 75ohm	622	2,000m
Fast Ethernet 100Mbps + E1 (100+2) - 100BaseTX	100M-RJ45/ E1-BNC	Twisted-pair RJ45 + 2xBNC 75ohm	622	2,000m
Fast Ethernet 100Mbps + E1 (100+2) - 100BaseFX	100M-MMST/ E1-BNC	Fibre-optic ST 1310nm + 2xBNC 75ohm	622	2,000m

## Telecommunication Interfaces

Interface Type	Order Code	Connectors	System Supported	Range Supported
<b>PDH interfaces</b>				
1x E1/G703 2Mbps single channel	1E1-BNC	2x BNC 75ohm Twisted-pair RJ45	Access, 622, Gigabit	4,000m
2x E1/G703 2Mbps (2x2)	2E1-BNC	4x BNC 75ohm 2x Twisted-pair RJ45	Access, 622, Gigabit	4,000m
4x E1/G703 2Mbps (4x2)	4E1-BT43	8x BT-43 75ohm 4x Twisted-pair RJ45	Access, 622, Gigabit	4,000m
12x E1/G703 2Mbps (12x2)	12E1-BNC	24x BNC 75ohm	Access, 622, Gigabit	4,000m
16x E1/G703 2Mbps (16x2)	1000M-SMSC	24x BNC 75ohm	Access, 622, Gigabit	4,000m
8Mbps E2/G703 single channel	E2-BNC	2x BNC 75ohm	Access, 622, Gigabit	4,000m
34Mbps E3/G703 single channel	E3-BNC	2x BNC 75ohm	Access, 622, Gigabit	4,000m
<b>US-Standard interfaces</b>				
1x T1 1.544Mbps single channel	1T1-BNC	2x BNC 75ohm Twisted-pair RJ45	Access, 622, Gigabit	4,000m
2x T1 1.544Mbps single channel	2T1-BNC	4x BNC 75ohm 2x Twisted-pair RJ45	Access, 622, Gigabit	4,000m
4x T1 1.544Mbps single channel	4T1-BNC	8x BNC 75ohm 4x Twisted-pair RJ45	Access, 622, Gigabit	4,000m
6Mbps T2 single channel	T2-BNC	2x BNC 75ohm	Access, 622, Gigabit	4,000m
45Mbps T3/DS3 single channel	T3-BNC	2x BNC 75ohm	Access, 622, Gigabit	4,000m
51Mbps STS-1 single channel	STS1-BNC	2x BNC 75ohm	Access, 622, Gigabit	4,000m
<b>SDH interfaces</b>				
155Mbps STM-1 Sonet /SDH interface	155M-SMSC	Fibre-optic SC 1310nm	Access, 622	4,000m
622Mbps STM-4 Sonet /SDH interface	622M-SMSC	Fibre-optic SC 1310nm	622	2,000m

## Video Interfaces

Interface Type	Order Code	Connectors	System Supported	Range Supported
<b>Broadcast Television</b>				
SMPTE Serial Digital 143,177,270,360,540Mbps	SDI-540	2x BNC 75ohm	622	2,000m
Broadcast Composite Video single channel	B-1CV	2x BNC 75ohm	Access, 622	4,000m
<b>CCTV Video</b>				
CCTV Video Duplex single channel	C-1CV	2x BNC 75ohm	Access, 622	4,000m
CCTV Video Duplex with Audio/Telemetry	C-1CV-A	2x BNC 75ohm + aux	Access, 622	4,000m
CCTV Video 4 channels	C-4CV	8x BNC 75ohm + aux	622	2,000m