

- 24 xDSL channels extension over optical fibre
  - ◆ **Broadband Internet including ADSL2+**
  - ◆ **TV over ADSL**



### ◆ DESCRIPTION :

The IFOTEC ADSL, ADSL2+ & SHDSL systems extend the reach of DSLAMs over optical fibre in order to provide broadband services to all customers:

- **Television over ADSL (typically building or residential areas)**
- **Broadband Internet adapted for the use of private individuals (ADSL/ADSL2+)**
- **Symmetric broadband Internet adapted for the use of professionals, companies, activity areas (SHDSL)**

The DSLFibre solution comprises of a central office unit connected to "copper wire" distribution frame and a remote location unit connected to the subscribers' copper wire.

The transmission distance can exceed 30 Km over standard single mode optical fibre. This distance can be more than doubled on request.

The installation is easy; this system doesn't require the management of ATM or IP layers.

The available data rate is 8 Mbits/s downstream per subscriber for ADSL downstream signals, 20 Mbits/s for ADSL2+ and 2.3 Mbits/s symmetric for SHDSL signals.

Each system extends **24** channels without contention on a single fibre. Each channel can extend indifferently **ADSL, ADSL2+ or SHDSL** signals without any device configuration.

Other products of the DSLFibre range (specific data sheets):

- **Point to point high capacity 288 subscribers per pair of optical fibres : configuration possible with DSLFibre-48+ (48 accesses) module and DSLFibre-96+ (96 accesses).**
- **Distributed system configuration realized from CWDM technology : Add & drop configuration from 24 to 96 subscribers.**

Each ADSL equipment is equipped by a SNMP version 3 and 2 dry contacts of alarm.

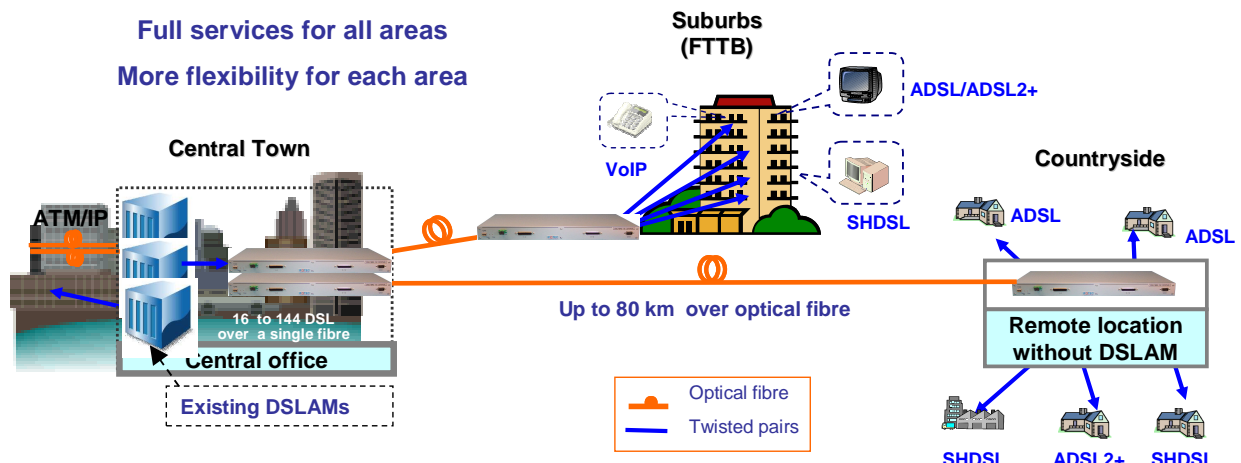
### ◆ MAIN FEATURES

- 24 signals ADSL, ADSL2+ or SHDSL and up to 144 signals over one single optical fibre thanks to the CWDM technology.
- Flexibility of connection: each channel can indifferently extend ADSL, ADSL2+ or SHDSL signals without reconfiguration of the module.
- No installation settings, does not require any software maintenance.
- Easy installation and maintenance: no fan, operation indicators, supervision by SNMP and dry contacts.
- Transparent transmission system (no remote intelligence): Does not require the management of ATM or IP layers.
- Supports the evolution of the ISPs' offers from day one
- Compatibility with all DSLAM and modem manufacturers, port by port.
- Possibility to connect the same equipment to different DSLAMs.
- 19" rack ETSI 1U Sub-rack for both the central office transceiver and the remote transceiver.
- All Connections are housed on the front panel including the SC/APC fibre optic interface.
- Power supply 48 VDC, maximum consumption lower than 1 W by channel for every equipment: with remote power supply possibility.
- Low power dissipation of the remote equipment (lower than 20 W) and wide range of temperature authorizing an installation in underground chamber or not refrigerated cupboard.
- Production place and after sales service: Voiron (France).
- Product warranty: 3 years.



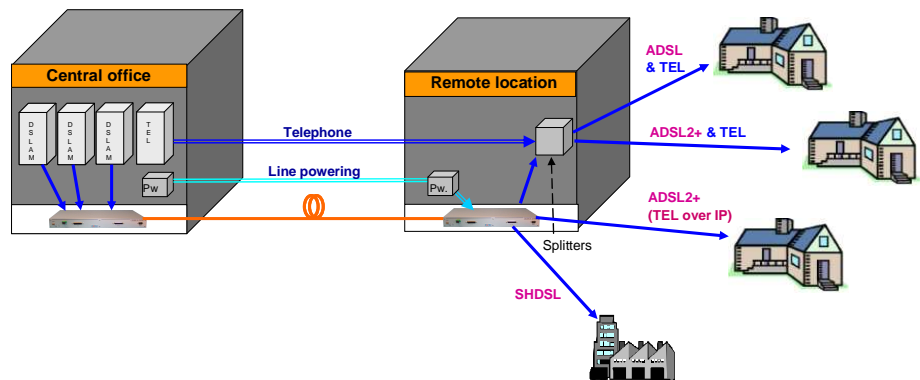
Other products [www.ifotec.com](http://www.ifotec.com)

## Point to point: DSL Access remote subscribers



## ADSL/ADSL2+/SHDSL specifications

Number of access	24 ports
Type of interface	DSLAM, modem
<b>ADSL</b>	
Typical downstream rate	8 Mbits/s
Typical upstream rate	800 Kbits
<b>ADSL2+</b>	
Typical downstream rate	20 Mbits/s
Typical upstream rate	1 Mbits/s
<b>SHDL</b>	
Typical symmetric rate	2.3 Mbits/s
Typical rates at 1Km of remote unit over twisted pairs 0.4 mm after an extension of 30 Km over optical fibre.	



## Optical specifications

Fibre	Wavelength	TX optical power	Optical budget dB	Distance*
1 Single mode fibre (9/125 µm) G652	1310/1550 nm	-6 dBm	15 dB (standard product)	30 Km

\*transmission distance will be a function of installed fibre and network type

	Connections	Indicators
<b>Common specifications for both Central and Remote Units</b>	<p><u>DSL</u>: 3 Sub-D 25 (8 symmetric pairs per Sub-D 25)</p> <p><u>Optical connection</u> : SC/APC</p> <p>- if CWDM option : SC/APC x 2</p> <p><u>Power supply</u> : Screw terminal (3 pins detachable plug)</p> <p><u>Management on front side</u> :</p> <p>- 2 dry contacts on RJ 11</p> <p>- SNMP V.3 and https:// on RJ45</p>	<p>Front side :</p> <ul style="list-style-type: none"> <li>◆ Laser ON : Optical Emission</li> <li>◆ Error : Transmission error (red LED)</li> </ul> <p><u>Management on front side</u> :</p> <ul style="list-style-type: none"> <li>◆ Alarm : Alarm x 2 (red LED)</li> </ul>
Power supply	Mechanical	Environment
<p>Maximum consumption :</p> <p>Central office equipment : 22 watts</p> <p>Remote equipment : 20 watts</p> <p>48 VDC isolated (12 VDC on request)</p> <p>Remote power supply : available on request</p>	<p>Size 19"1U: 44 x 482.4 x 253 mm (without plugs)</p> <p>Weight : 3,5 Kg</p>	<p>Operating temperature :</p> <p>Central office equipment : -10 ; + 50°C</p> <p>Remote equipment : -20 ; + 55°C</p> <p>Storage temperature : - 40 ; + 85°C</p> <p>Relative humidity :</p> <p>0 to 85% (non-condensing)</p>

## Part numbers:

Typical part numbers		Power supply	Description	Connector
<b>Rack 19" 1U – ETSI compatible</b>				
Central office equipment	Remote equipment	48 VDC	24 ADSL/ADSL2+/SHDSL channels over 1 single mode fibre over 30 Km <b>with supervision and dry contacts</b>	SC/APC
DSL Fibre-24+-CXS5001	DSL Fibre-24+-RXS5001			

In line with the company policy of continuous improvement, products are subject to change without prior notice

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