

FT0X0DB Series

Digital 1 or 4 Bi-directional Data



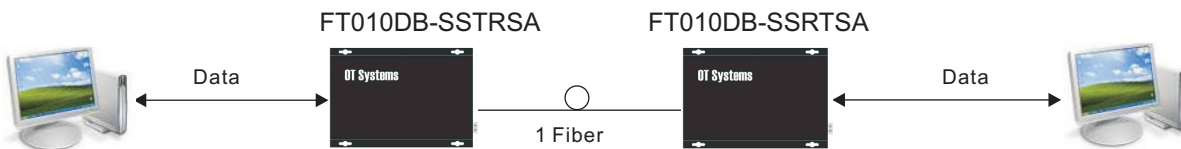
The FT0X0DB series supports optical transmission of digital-quality bi-directional data through one fiber either in multimode or singlemode.

It provides a flexible solution for the transmission of either one or four data channel(s). User can select RS232, RS422 or RS485(2 or 4-wire) by DIP switches. Either standalone or card module is available for different installation requirements.

Features

- One or four bi-directional data transmission
- Supports multi-protocol data in RS232, RS422 & RS485(2 or 4-wire) Tri-state formats
- External access for data format selection via DIP switches
- Suitable for alarm system, traffic control system, access control system, data equipment, etc
- Laser diode for optical transmission
- Optimum sensitivity for power budget concerns
- Excellent suppression of EMI & RFI and elimination of ground loop
- Adjustment and maintenance free
- No setup but just plug-and-play
- Hot-swappable card modules
- Duplicated LED indicators on the front and rear of the unit for the convenience of observation
- Transient voltage protection on power supply and all signal inputs & outputs
- Robust design for harsh environment applications
- Standalone or card module

Typical Application



FT0X0DB Series

Ordering Information

Model	Description	No. of Fibers (Wavelengths)	Optical Power Budget	Max. Distance
MULTIMODE (62.5/125 um)				
FT010DB-SMTR	1 Data Transceiver	1 (1310/1550 nm)	23 dB	4 km
FT010DB-SMRT	1 Data Transceiver			
FT040DB-SMTR	4 Data Transceiver			
FT040DB-SMRT	4 Data Transceiver			
SINGLEMODE (9/125 um)				
FT010DB-SSTR	1 Data Transceiver	1 (1310/1550 nm)	17 dB	40 km
FT010DB-SSRT	1 Data Transceiver			
FT040DB-SSTR	4 Data Transceiver			
FT040DB-SSRT	4 Data Transceiver			
FT010DB-SSTR	1 Data Transceiver	1 (1310/1550 nm)	24 dB	60 km
FT010DB-SSRTL	1 Data Transceiver			
FT040DB-SSTR	4 Data Transceiver			
FT040DB-SSRTL	4 Data Transceiver			
Accessories: FT-C18. 19" rack mount chassis (purchased separately) for housing card modules FT-PA/12V. 12VDC power adapter included for standalone (US, European, UK or Australian power plug)				
Options: Model numbers specified above are for Card Modules, please add ' SA ' for Standalone. eg. FT010DB-SMT SA ST type connector is standard. For FC type, specify ' F ' in the model number. Eg. FT010DB- FMT				

- NOTES: (1) Transmission distance will suffer if additional losses are introduced by the optical connectors, fusions, splices and the fibers within the network.
 (2) Operating distance of multimode is limited by the characteristics of the fiber bandwidth.
 (3) Power adaptor is manufactured by third party and is supplied with fitted screw-terminal output cables.
 (4) Please feel free to consult factory for any special requirement and customization

Data

Specifications

Data		Electrical and Mechanical	
No. of Channels:	1 or 4	Power:	SA: 12VDC @ 3.0W Card: From FT-C18 chassis
Data Direction:	Bi-directional	Dimensions (HxWxD):	SA: 30(50*) x 156 x 212mm Card: 154 x 20.4(41*) x 212mm
Data Interface:	DIP switch-selectable RS232, RS422, RS485(2 or 4-wire) Tri-state, MPD (Manchester, Bi-phase, etc)	Weight:	SA: 0.65(0.92*)kg Card type: 0.2(0.4*)kg
Data Format:	MPD (Manchester, Bi-phase, etc)	No. of rack slots:	1(2*)
Data Rate:	0~256Kbps	LED Indicators:	Power, Optical carrier detected, Data Tx & Rx
Connectors		*Specifications of FT040DB	
Optical:	ST (standard), FC	Environmental	
Data:	7-pin screw terminal	Operating Temp.:	-40°C to +75°C
Power:	SA: 2-pin screw terminal Card: Futurebus connector	Storage Temp.:	-40°C to +85°C
		Relative Humidity:	0 to 95% non-condensing
		MTBF:	> 100,000 hours



Lifetime Warranty