

IFR-0202

4x4 Industrial Optical Fiber Controller

- Redundant power inputs: 12~48VDC
- Wall mount and DIN rail design
- IP-30 Protection
- Plug-and-play deployment



OVERVIEW

The Lantech IFR-0202 provides a permanent and trouble-free access port for in-line network devices. The 4x4 Optical Fiber Controller automatically switches network traffic through added in-line devices or bypasses devices that are about to be removed. Prevent link failure when attached in-line devices lose power by powering the IFR-0202 and in-line device from the same power source.

The Lantech IFR-0202 supports bypass function with fiber in-line device when it shares the same power source as the in-line device. While the IFR-0202 is receiving power, it diverts

network traffic to attached in-line devices. In this state, all in-line traffic is routed directly to the device connected to the IFR-0202.

When the Optical Fiber Controller loses power, in-line traffic continues to flow through the network link, but is no longer routed through the device. This allows the network devices to be removed and replaced without network downtime. Once power is restored to the IFR-0202, network traffic is seamlessly diverted to the in-line device, allowing it to resume its critical functions.

FEATURES & BENEFITS

- Bypass function with fiber in-line device at speeds of 100 Mbps or 1000 Mbps
- Increased reliability on critical network links
- High-speed optical switching (<5ms) with minimal insertion loss (Max 1 6dB as Bypass Mode)
- Fully RoHS compliant

- IP 30 protection with DIN rail and wall mount design
- LED indicator shows power status
- Tested and compatible with all major manufacturers' in-line devices
- 30 Seconds Boot Up Delay Design

APPLICATION EXAMPLE

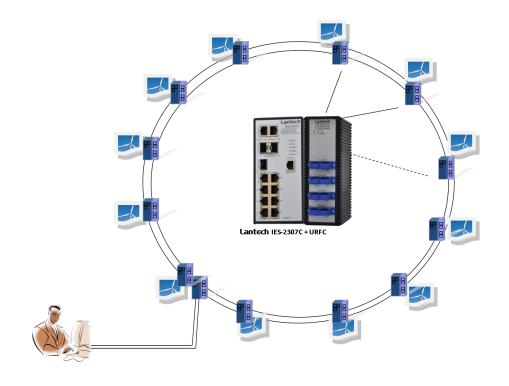
Maintenance in Wind Power Parks

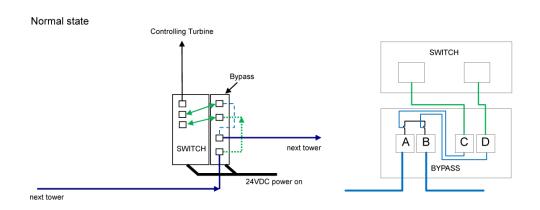
Doing maintenance in wind power parks is not easy, if you do not want to lose control of other non-maintained turbines.

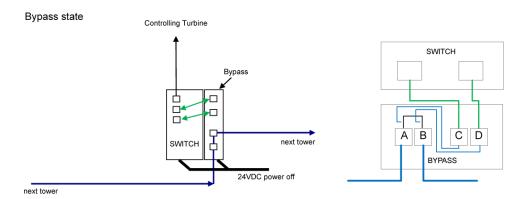
Generally groups of turbines are connected in a small ring. This means in each ring only one turbine can be switched off for maintenance.

Using the Lantech IFR-0202 is able to avoid these restrictions. It is possible to create big rings and do the service for several turbines in a ring at the same time with no loss of control. This means fewer costs for controlling and network.











SPECIFICATION

Hardwara Cr	a a cificatio				RX2→B1	F0	54	
Hardware Specification						50		
Connector	LC or SC or ST Fiber Connectors				TX1→RX2	49	51	
Optical Cable	Fiber Type: Multimode Corning 62.5/125 μ m,				RX1→TX2	54	52	
	wavelength, 850nm			PDL (dB) 1550 nm	ALL CH	Pass ≤ 0.1		
	Insertion Loss: Max 1.6dB when the switch losing			WDL (dB) 1310/	ALL CH	Pass ≤ 0.3		
	power and is ir	Bypass mode		1550 nm				
	Fiber Type: Singlemode Corning 9/125 μ m, wavelength, 1300~1550nm Insertion Loss: Max 1.6dB when the switch losing power and is in Bypass mode			Switching Time	ALL CH Pass ≤ 5			
				(ms) 1550 nm				
				Cross Talk (dB)	ALL CH	Pass ≤ -80		
				1550 nm				
Boot Up Delay	Every time the power has been connected, it'll take			LED	Power (Green)			
	about 30 seconds delay then boot up.			Operating Humidity	5% ~ 95% (Non-condensing)			
Operation	1280-1340/ 1520-1625 nm			Operating	-20°C~60°C / -4°F~140°F			
Wavelength				Temperature				
Insertion Loss (dB)	TX1→A0	0.62	0.51	Storage	-40°C~85°C / -	40°F~185°F		
1310/ 1550 nm	RX1→A1	0.55	0.43	Temperature				
	TX2→B0	0.35	0.35	Power Supply	DC 12~48V, Re	edundant power a	ind removable	
	RX2→B1	0.81	0.66		terminal block			
	TX1→RX2	0.91	0.89	Case	Metal case. IP-	30 Protection		
	RX1→TX2	0.99	0.86	Dimension	30 (W) x 95 (D) x 140 (H) mm		
Repeatability (peak				Weight	440 g			
to peak) 100 Cycles	ALL CH	Pass ≤ 0.1		Installation	DIN Rail and Wall Mount Design			
1550 nm				Warranty	5 years			
Return Loss (dB)	TX1→A0	50	53					
1310/ 1550 nm	RX1→A1	52	53					
	TX2→B0	52	53					

ORDERING INFOMATION

IFR-0202-LC-MMP/N: 8800-140								
Availadustrial Ontical Fiber Controller I Connectors 1 25Chno/425Mhno Auto Consing Multimore	al a							

4x4 Industrial Optical Fiber Controller; LC connectors; 1.25Gbps/125Mbps Auto-Sensing; Single mode

■ IFR-0202-SC-SM.......P/N: 8800-146

4x4 Industrial Optical Fiber Controller; SC connectors; 1.25Gbps/125Mbps Auto-Sensing; Single mode

■ IFR-0202-ST-MM......P/N: 8800-147

4x4 Industrial Optical Fiber Controller; ST connectors; 1.25Gbps/125Mbps Auto-Sensing; Multi mode

OPTIONAL ACCESSORIES

DIN Rail Power

■ AD1048-24FS
■ AD1024-24F
■ AD1240-48S
■ AD1120-48F
■ A

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