BUZZ VC
Remote Video Communication

Fiber Optic Access Unit

- Optimized for daisy chain and surrounding F/O networks
- Plug & Play installation and operation
- Fiber Optic -2x 100BaseFX ports supporting:
  Multimode up-to 6Km and Singlemode fibers up-to 100Km
  SC, ST, MT-RJ, VF-45 or LC connectors
  Single fiber versions
- UTP/STP- 3 x 10/100BaseTX Auto-Negotiation RJ-45 ports
- Full wire speed and half/full duplex support on all ports
- Far-end-fault detection, flow control, broadcast control
- Per port status LED indicators

Bz-FO505 The Bz-FO505 F/O Access Unit for Audio/Visual applications is optimized to address fiber optics surrounding networks (ring and daisy-chain topologies), mainly used for surveillance and control application.

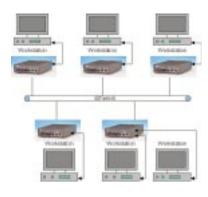The Bz-FO505 includes two 100BaseFX ports for "Fiber In" "Fiber Out" network connections, as well as three 10/100BaseTX "drop" ports for connecting the local network(s) and/or local equipment.

The 100 Base FX fiber ports are available with a choice of SC, ST, MT-RJ, VF-45 or LC F/O connectors for multimode or singlemode fibers supporting up-to 100Km. The Bz-FO505 is also available in single fiber (/SF) versions, releasing/saving expensive fiber, doubling the utilization.

The Bz-FO505 is equipped with powerful features usually found in high-end switches: full wire speed forwarding and filtering on all ports; 1k MAC addresses using automatic learning and aging mechanism; half/full duplex operation with flow control to allow 20/200Mbps bandwidth and minimize packet loss; broadcast storm control; 1Mb buffer memory; full auto negotiation on the copper ports and far-end-fault detection on the F/O ports.

The Bz-FO505 uses store & forward architecture enabling direct 10M to 100M transfers as well as complete error checking and filtering that optimizes network operation. The device supports long frames of up to 1532 bytes.

High visible LED indicators provide easy monitoring of the status and the activity on each individual port.

System Specifications

100BaseT/TX Ports
- 10/100BaseTX RJ-45.
- 10/100 auto-negotiation (speed and HDX/FDX).
- 100 meter (330 ft) distance over UTP/STP cable.

LED Indicators (per port)

10/100BaseT/TX Port(s)	LN/AC - Link / Activity
	FD/CO - Full Duplex / Collision
	100M - 100Mbps speed
100BaseFX Port(s)	LN/AC - Link / Activity
	FD/CO - Full Duplex / Collision

Switching Method
Store and forward

Special Features
- Far-End-Fault detection, on FX port(s)
- Flow control and broadcast control

Standard Compliance

IEEE802.3	10Base Ethernet
IEEE802.3u	100Base Fast Ethernet
IEEE802.3	Auto-negotiation
IEEE802.3x	Flow control

Switching Method
Physical layer repeater

Dimensions

Height	47mm (1.85")
Width	140mm (5.5")
Depth	200mm (7.8")

100BaseFX Ports

Interface

Multimode	1300nm	SC, ST, MT-RJ, VF-45, LC
Singlemode	1300nm	SC, MT-RJ, LC
	1550nm	SC

Distance / Power Budget

Multimode	62.5/125µ	6Km / 11dB		
Singlemode	9/125µ			
20Km	40Km	60Km	100Km	
11dB	21dB	31dB	32dB	

Single Fiber Distance / Power Budget

Singlemode	9/125µ	35Km 80Km
Min power budget		18dB 26dB

Electrical Characteristics

Main input voltage	90-240VAC
Frequency	47-400Hz

Safety & Emissions
CE, FCC Part 15, EM60950

Environment

	C°	F°
Operating Temp.	0 to 45	32 to 113
Storage Temp.	-30 to 65	-22 to 149
Humidity	10% to 90% non-condensing	

Ordering Information

Bz-FO505M/[x]	5 port switch, 2 ports 100BaseFX (MM, 1300nm, 0-6Km,[x]), 3x 10/100BaseT/TX RJ-45 ports, status mgmt.
Bz-FO505[Sn]/[x]	5 port switch, 2 ports 100BaseFX (SM, [Sn],[x]), 3x 10/100BaseT/TX RJ-45 ports, status mgmt.
Bz-FO505/SF/[Sn]/[x]	5 port switch, 2 Single fiber ports 100BaseFX (SM, [Sn],[x]), 3x 10/100BaseT/TX RJ-45 ports, status mgmt.

M	Multimode 1300nm 0-6Km	[x]= Type of F/O connector: ST, SC, VF-45, MT-RJ or LC	
[Sn]=S	Singlemode 1300nm 0-20Km	[x]= Type of F/O connector: SC, MT-RJ , LC	
[Sn]=S1	Singlemode 1300nm 10-40Km	[x]= Type of F/O connector: SC	
[Sn]=S2	Singlemode 1300nm 30-60Km	[x]= Type of F/O connector: SC	
[Sn]=S3	Singlemode 1550nm 50-100Km	[x]= Type of F/O connector: SC	

*Single fiber:

SF/[Sn]=S1	Single Fiber SM 1300nm 0-35Km	[x]= Type of F/O connector: SC of FC - APC polish.
SF/[Sn]=S2	Single Fiber SM 1550nm 0-80Km	[x]= Type of F/O connector: SC of FC - APC polish.