



Pilotix digital receiver fiber module for FPV applications utilizing single-mode fiber optic transmission with FC connectors operating at 1310nm and 1550nm wavelengths. Supports transmission distances of 20km, 40km, 60km, and 80km with bidirectional communication capability. Features video encoding up to 4K at 30fps, 3K at 60fps, or 1080P at 90fps using H.264 and H.265 codecs with latency between 45-80ms. Equipped with a 1/2.8" sensor and 2.1mm focal length lens providing 145.7° horizontal, 80.5° vertical, and 174.2° diagonal field of view. Includes MSP OSD protocol support with CRSF and SBUS data formats via SH1.0 6P interface. Receiver dimensions measure 40.2 x 40.2 x 18.6mm with 30.5 x 30.5mm M3 mounting pattern, operating from -20°C to 40°C.

Product details	
Model	Receiver fiber module digital (80km)
SKU	8055
Encoder	
Resolution	4K@30 fps, 3K@60 fps, 1080P@90 fps
Video codec	H.264, H.265
Video code rate	500kb/s-20Mb/s
Latency	45-80ms
Image sensor	
Sensor	1/2.8"
Lens	
Iris	F1.45
Focal length	2.1 mm
Horizontal view	145.7°
Vertical view	80.5°
Diagonal view	174.2 °
Interface	
OSD protocol	MSP OSD
Data format	CRSF, SBUS

Communication mode	Bidirectional
External interfaces	
Receiver interface	SH1.0 6P
LED indicator	2
Fiber optic	
Fibre type	Single-mode fiber
Optical connector type	FC
FC interface	Fibre interface
Fibre wavelength	1310/1550 nm
Transmission distance	20km, 40km, 60km, 80km
Mechanical specifications	
Camera mounting	19 x 19 mm (M2)
Receiver mounting	30.5 x 30.5 mm (M3)
Camera dimensions	19 x 19 x 22.5 mm
Receiver dimensions	40.2 x 40.2 x 18.6 mm
Weight	45 g
Power	
Consumption	3.2 W
Operating conditions	
Humidity range	20-95% RH (non-condensing)
Operating temperature	-20 - 40 °C
Storage temperature	-30 - 50 °C
Common	
Warranty	2 years

Wiring diagram

