

ANT-1776UAV – connector / cable information

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Please note the “board connector” is the correct part number. The “mating cable connector” should be correct, so please check with your supplier to ensure you have the correct part.

The connector ID’s referred to in this document are those referenced in the document https://downloads.antrica.com/UAV-Encoders/ANT-1776UAV/Application-Notes/ANT-1776UAV_specification_And_PinOut.pdf

Document info

Version	date	author	Comments
0.1	23-May-25	David M	Initial draft

For further help and advice please contact Antrica on:
 Email: support@antrica.com
 Phone: +44 1628 626098, during UK office hours, and ask for technical support

1. Cable / Connector information

1.1. Power cable

Function	Power cable
connector ID on board	J3
Brand	JST
board connector	SM06B-SRSS-TB
number of wires / circuits	6
cable type	hookup wire
mating cable connector	SHR-06V-S
other end	PSU connector – 5.5mm with 2.1mm pin
comments	e.g. if you Google “power socket 5.5mm / 2.1mm” you will see one

1.2. Ethernet cable

Function	Ethernet cable
connector ID on board	J5
Brand	JST
board connector	SM08B-SRSS-TB
number of wires / circuits	8
cable type	hookup wire
mating cable connector	SHR-08V-S
other end	standard RJ45 Ethernet socket
comments	

1.3. Ribbon cable

Function	Ribbon cable
connector ID on board	20
Brand	Hirose
board connector	FH28D-20S
number of wires / circuits	20
cable type	ribbon cable
mating cable connector	n/a as is ribbon cable
other end	ribbon cable
comments	FPC/FFC cable and connector

1.4. Analogue video cable

Function	Analogue video cable
connector ID on board	J27
Brand	
board connector	
number of wires / circuits	2
cable type	RF179 with short length of hookup wire
mating cable connector	
other end	standard BNC male connector
comments	RF179 is coax cable

1.5. Audio

Function	Audio
connector ID on board	J6
Brand	JST
board connector	SM04B-SRSS-TB
number of wires / circuits	4
cable type	hookup wire
mating cable connector	SHR-04V-S
other end	un-terminated wires
comments	

1.6. GPIO

Function	GPIO
connector ID on board	J2
Brand	JST
board connector	SM04B-XSRS
number of wires / circuits	4
cable type	hookup wire
mating cable connector	04XSR-36S
other end	un-terminated wires
comments	

1.7. Terminal

Function	Terminal
connector ID on board	J4
Brand	Molex
board connector	53261-0471
number of wires / circuits	4
cable type	hookup wire
mating cable connector	51021-0400
other end	either un-terminated wires or RS-232 module
comments	currently only engineering use

1.8. UART

Function	UART
connector ID on board	J11
Brand	JST
board connector	SM04B-XSRS-ETB
number of wires / circuits	4
cable type	hookup wire
mating cable connector	04XSR-36S
other end	either un-terminated wires or RS-232 module
comments	