

ACU0002

AISG CONTROLLER

The Kaelus Antenna Control Unit (ACU) is used to provide remote monitoring and RET control for TMA devices installed at a cell site. The ACU0002 is able to communicate with AISGv1.1 or AISGv2.0 devices via a local Ethernet connection or remotely through a Ethernet connection.

FEATURES

- Controls and monitors RET and TMA devices via AISG protocol
- Open collector contacts provides alarm report output to BTS
- Provides remote software download capability
- Remote or local control via Ethernet interface
- Able to store local site data such as GPS coordinates, site contact information, etc.
- Supports -48V DC power input



TECHNICAL SPECIFICATIONS

ELECTRICAL	
Input voltage/current	-48VDC / maximum 1.5A
Input protection	Fuse (slow blow)
Output voltage/current	+28VDC @ 1.7A
Maximum output to AISG devices	50W
MONITORING / CONTROL	
Max number of AISG devices	Up to 24 RET and 6 TMA devices (dependent on device power consumption and cable length)
Comunication ports	1 x RS485
Network interface	2xEthernet 10/100/1000Mbps
Network protocol	TCP/IP, HTTP/HTML
Alarm interface outputs	3 external outputs wired open collector
ENVIRONMENTAL	
Temperature range	0°C to +55°C 32°F to 131°F, indoor
Lightning protection	Yes
MTBF	>400,000 hours at 22°C / 71.6°F
MECHANICAL	
Dimensions H x D x W	220 x 185 x 44mm 8.66 x 7.28 x 1.73in (excluding mounting hardware)
Weight	1.5kg 3.3lbs
Mounting	1U 19 inch rack and wall mounting brackets supplied
DC input connector	HDR PLUG(F) SCR P3.81 GRN 3P R/A LF supplied
Alarm connector	HDR PLUG(F) P3.81 GRN 5P R/A LF supplied
AISG connectors	1 x 8-pin circular AISG female
Compliance	FCC

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
ACU0002F1V1-1	AISG controller-1 way

OPTIONAL ACCESSORIES	
PART NUMBER	DESCRIPTION
KA-9003-1000	Smart BIAS T, 7/16M BTS 7/16F ANTENNA AISGM STD bottom of the tower
KA-9003-1001	Smart BIAS T, 7/16F BTS 7/16M ANTENNA AISGF STD top of the tower
KA-9003-1002	Smart BIAS T, 7/16F BTS 7/16M ANTENNA AISGM STD bottom of the tower
KA-9003-1003	Smart BIAS T, 7/16M BTS 7/16F ANTENNA AISGF STD top of the tower
KA-9006-1000	Smart BIAS T, 4.3-10M BTS 4.3-10F ANTENNA AISGM STD bottom of the tower
KA-9006-1001	Smart BIAS T, 4.3-10F BTS 4.3-10M ANTENNA AISGF STD top of the tower
KA-9006-1002	Smart BIAS T, 4.3-10F BTS 4.3-10M ANTENNA AISGM STD bottom of the tower
KA-9006-1003	Smart BIAS T, 4.3-10M BTS 4.3-10F ANTENNA AISGF STD top of the tower
R18-0749-1	Cable assembly, AISG outdoor cable - male to female - 1 meter
R18-0749-3	Cable assembly, AISG outdoor cable - male to female - 3 meter
R18-0749-5	Cable assembly, AISG outdoor cable - male to female - 5 meter
R18-0749-10	Cable assembly, AISG outdoor cable - male to female - 10 meter
R18-0749-15	Cable assembly, AISG outdoor cable - male to female - 15 meter

SYSTEM BLOCK DIAGRAM

