



- 1.2m and 1.5m Reflector options
- Compact and Robust
- Auto-Pointing IPPOINT™ Controller
- Can be Operated by Anyone
- Acquires in < 3 minutes
- Available with integrated Tx Power up to 125W Ku-Band 1:1 redundant system

FEATURES:

- Simple Operation – Requires no Satellite Communication Expertise
- Acquires the satellite within minutes
- Completely automatic one button acquisition of required satellite
- Low cost, high performance and reliable satellite acquisition
- Ultra-Compact
- Aerodynamic Antenna Enclosure

The **PIONEER120™** & **PIONEER150™** antennas are ultra-compact roof mounted systems. The antennas encompass the drive control, positioning hardware and BUC into the aerodynamic antenna enclosure, making the system a robust standalone sub-assembly ready to install onto almost any vehicle.

The versatile power-payload of the **PIONEER Class** antennas has been designed to house SSPAs with power levels up to 100W Ku-Band or Extended Ku-Band in single thread or 1:1 redundant configurations.

The system is simple to install, set up and use. Following relocation of the antenna, the system will reliably and accurately locate and lock on to the designated traffic satellite rapidly within minutes. The IPPOINT™ Auto Acquisition Controller uses industry standard position transducers and a sophisticated pattern recognition algorithm to confirm and refine its heading information using visible satellites. The controller is mounted on the antenna structure with a separate control panel with integral power supply in a rack mount unit for mounting within the equipment area.

PIONEER120™ & 150 Drive-Away Antenna



Physical

	PIONEER120™	PIONEER150™
Antenna Width	123cm	150cm
Antenna Height	127cm	152cm
Geometry	Dual Offset, dual optic	Single Offset
Reflector Material	SMC	Carbon Fibre
Weight	100kg	100kg

Range

Azimuth	+/-185°	+/-185°
Elevation	10-90°	10-90°
Polarization	+/-95°	+/-95°
Feed Interface	WR75	WR75

Electrical

Receive

Controller	IPOINT	IPOINT
Polarization	Linear	Linear
Frequency Band	10.7-12.75 GHz	10.7-12.75 GHz
Gain @12.5GHz	41.8 dBi	43 dBi
G/T(30° elevation)@12.5GHz	21dBK	23dBK

Transmit

Polarization	Linear Orthogonal	Linear Orthogonal
Frequency Band	13.75-14.5 GHz	13.75-14.5 GHz
Gain @14.25GHz	43 dBi	44.7 dBi
VSWR	1.3:1	1.3:1
Isolation RX/TX (13.75-14.5 GHz)	40dB	40dB
Isolation TX/RX (10.75-12.75 GHz)	75dB	75dB

Wind Speed

Operational up to 45 mph (72 kph)
Survival up to 100 mph stowed (161 kph)

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An ISO9001 2000 Company



CANADA

657 Orly Avenue
Dorval, Quebec
Canada H9P 1G1
Tel.: +1 (514) 420-0045
Fax: +1 (514) 420-0073
Email: Sales@AdvantechAMT.com

EUROPE

39 Edison Road
St.Ives Huntingdon, Cambridgeshire
United Kingdom PE27 3LF
Tel.: +44 (1480) 357 600
Fax: +44 (1480) 357 601
Email: Sales.Europe@AdvantechAMT.com

UNITED STATES

1553 W Todd Dr, Suite 206
Tempe, Arizona 85283-4805
United States
Tel.: +1 (480) 839 4136
Fax: +1 (480) 839 0860
Email: Sales@AdvantechAMT.com

PIONEER120™ & 150 Drive-Away Antenna



IPPOINT™ SPECIFICATIONS

Operational modes	Auto-acquire	Unstow	Stow	Configure
LNB Power supply	Can provide 13/18VDC switchable at up to 600mA on RF cable to power LNB and diseq tones.			
RF Signal Input	L-band signal from LNB Level -70 to -20 dBm			
Display	2 line LCD display giving Mode, Signal Level Indication and Position Information			
Motor Drive	Can drive all motors at 24VDC up to 12A. Pulse width modulation from 10% to 100%.			
Limit Switches	Stow Azimuth and Elevation switches			

OPTIONS

Hand Held Controller	Hand Held Controller with LCD display
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PHYSICAL

Temperature Range	-20°C to 55°C - Operating -30°C to 85°C - Non Operating (storage)
Humidity	5% to 95% RH non condensing - Operating 0% to 99% RH non condensing - Non Operating (storage)
Altitude	10,000 feet max
Input Power	110 or 230V, single phase, 50/60Hz, 500W
Dimensions	Antenna mounted controller 10.8" (275mm) x 10.3" (262mm) x 2.7" (69mm) Rack mounted Control panel containing PSU: 19" (483mm) x 1.75" (44mm) x 16"(406mm)
Mounting	Antenna mounted controller: Antenna specific mounting brackets Rack mounted Control panel containing PSU: Standard 1U rack mount

STANDARDS

Designed to Meet	EN55022 and EN50082-1
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EUROPE

39 Edison Road
St.Ives, Huntingdon, Cambridgeshire
United Kingdom PE27 3LF
Tel.: +44 (1480) 357 600
Fax: +44 (1480) 357 601
Email: Sales.Europe@AdvantechAMT.com

UNITED STATES

1553 W Todd Dr, Suite 206
Tempe, Arizona 85283-4805
United States
Tel.: +1 (480) 839 4136
Fax: +1 (480) 839 0860
Email: Sales@AdvantechAMT.com