



March 7, 2012

To Whom It May Concern,

Inmarsat has granted SkyWave approval to use the IDP-110 with two antenna configurations ( as per Note 3 of the attached Type Approval Particular from Inmarsat).

In order to simply marketing and certification, SkyWave has decided to two market the two antennas options as separate products.

SkyWave declares that the model names in the table below correspond to the antennas in the Inmarsat Type Approval.

Model Name	Configuration
IDP-180	IDP-110 and low profile antenna (20 to 90 degrees elevation coverage)
IDP-190	IDP-110 and low elevation antenna ( -15 to 90 degrees elevation coverage)

Regards

A handwritten signature in dark ink, appearing to read "Doug Reveler", with a long horizontal flourish extending to the right.

Doug Reveler

SkyWave Mobile Communications Inc  
VP Product Management

# TYPE APPROVAL PARTICULARS



Inmarsat Global Limited  
99 City Road  
London EC1Y 1AX  
United Kingdom  
[www.inmarsat.com](http://www.inmarsat.com)

T +44 (0)20 7728 1000  
F +44 (0)20 7728 1044

<b>SkyWave Mobile Communications Inc.</b> <b>IsatData Pro</b> MES Model: IDP-110 Part Number: ST90103x  Certificate Number IDP/SW/002
<b>Type Approval</b> <b>Particular Issue No: 001</b> Date: 15th August 2011

## MES FUNCTIONAL DETAILS

MES Configuration : Core Modem for integration with Antennas below.  
Optional :  
Tuning Range - Transmit : 1626.5 to 1660.5, 1668-1675 MHz  
Tuning Range - Receive : 1518 to 1559 MHz

## POWER SUPPLY

DC : 3.6 V – Rx, 6.3V - Tx

## IsatData Pro AND GPS REMOTE ANTENNA

Elevation : Low Profile: 20° to 90° (Part No.: ST9010YY-XXX),  
Low Elevation Angle: -15° to 90° (Part No. ST90106Y-XXX)

Azimuth : Omnidirectional and RHCP only

The Low Profile antenna is a single microstrip patch antenna for land applications.

The Low Elevation Angle antenna is a single quadrifilar antenna for marine applications.

## USER SERVICE

FWD Channel : Messages up to 10000 bytes  
: Broadcast messages up to 10000 bytes  
: Acknowledgements

RTN Channel : Messages up to 6400 bytes  
: Acknowledgements

## MES SOFTWARE VERSIONS

: Version: 1.0.0

## NOTES

The IDP-110 is compliant to FCC part 25, IC RSS-170, CE and a subset of SAEJ1455 environmental.

The IDP-110 is the core modem module which is used for third party integration.

The IDP-110 is approved for use only with the Antenna types listed above.

These particulars form part of the Type Approval letter dated 16 August and issued in accordance with any conditions therein. Certified Type Approved for and behalf of Inmarsat.

Signed:

Date: 24 August 2011

Hilary David  
Manager M2M Engineering  
Global Network Engineering