

Worldwide Datalink Weather & Airborne Telephone for Avidyne MFDs and Electronic Flight Bags



The Avidyne MLX770
and MLX780

Transceivers deliver
affordable worldwide
datalink graphical
weather, voice
communications,
and two-way text
messaging



The MLX-Series provides datalink graphical weather and airborne telephone capability for Avidyne MFDs and many popular Electronic Flight Bags (EFBs).

MLX770 and MLX780 Two-way Datalink Transceivers

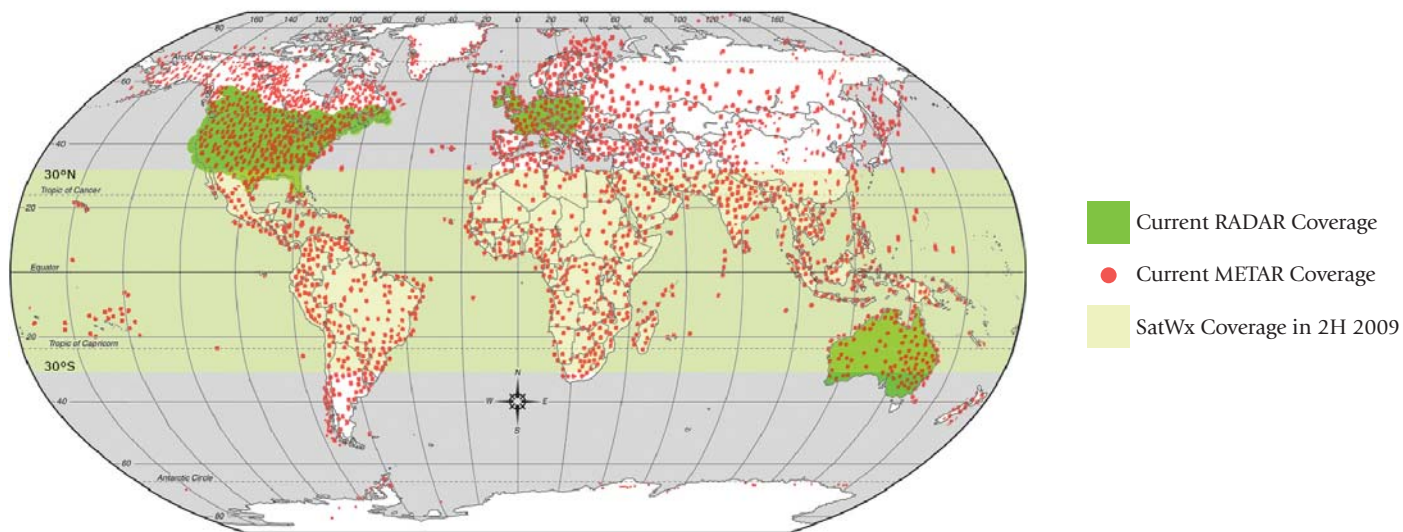
Avidyne's MLX770 and MLX780 deliver aviation-quality weather data for display on Avidyne's Entegra and EX500/EX5000-series multi-function displays, as well as compatible electronic flight bags. The MLX780 also includes airborne telephone capability.

Worldwide Satellite Datalink Weather

Utilizing the global Iridium constellation, Avidyne's exclusive Network Operations Center (NOC) and innovative two-way datalink transmission technology, the MLX770 and MLX780 deliver affordable datalink graphical weather for general aviation operations around the world. Services include high-resolution Radar imagery, METARs, and TAFs displayed in full color on your Avidyne MFD. Additionally, Winds & Temperatures Aloft, lightning, and flight tracking will be available in 2H 2009.

Affordable Worldwide Datalink Weather

MLX770/MLX780 Datalink Coverage Area



The MLX770 & MLX780 open up the world for **affordable** two-way airborne datalink communications. World-wide graphical & textual METARs and TAFs are available now with winds and temperatures aloft coming soon. For the latest RADAR coverage, please consult www.avidyne.com/products/MLX780.

The MLX770 is a single-channel Iridium transceiver that is capable of providing datalink weather and text messaging.

Utilizing Avidyne's Network Operations Center (NOC) and the 66-satellite Iridium® constellation, the MLX770 provides WSI's industry-leading InFlight® weather data products for display on Avidyne's Entegra and EX500 Multi-Function Displays (MFD).

In addition, the MLX770 provides convenient two-way SMS text messaging from your airborne MFD to compatible SMS-capable mobile phone or e-mail address, allowing pilots to communicate with family and friends on the ground from their aircraft in flight.

METAR Conditions at LSGG

Wind: 180 at 8kts	Cloud cover: 400 feet broken cumulonimbus
Gust: 15kts	11800 feet scattered towering cumulus
Visibility: 7SM	Temp/Dew: 6°C / -9°C
Weather: none	Altimeter: 1032.16 mb (30.48 inches)

METARs – A METAR is a report giving the actual weather conditions at an aerodrome at the time of the report. METARs are typically issued every 30-60 minutes.

Terminal Aerodrome Forecast (TAF) for LSZH

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051720Z 051818 VRB05KT P6SM FEW035 BKN045 FM2100 23007KT
P6SM -SHRA SCT030 BKN045 TEMPO 2301 25008G18KT 3SM TSRA BR
BKN035CB FM0300 22003KT 6SM BR SCT020 BKN035 TEMPO 0608 3SM
BR BKN010 FM1200 25006KT P6SM BKN060=
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TAFs – An aerodrome TAF is a forecast - it will give the predicted weather conditions expected at an aerodrome, usually for a 9 or 24 hour period.



MLX Datalink weather displayed over northern Australia on an EX5000 MFD.

Datalink Messaging

18:42Z Got a call from Mr. Jones. He wants to know what time you'll be there. What should I tell him?

18:44Z GOT A LATE START. TELL HIM 20:00

18:45Z OK. He'll meet you at the restaurant at 20:00

18:46Z ROGER THAT. THANKS!

Compose

Pos Select Map Chart Trip Nrst Aux Page

Two-Way Text Messaging – With the MLX770/MLX780, you have the ability to send and receive text messages while flying, allowing you to communicate with someone on the ground via an e-mail connection or a mobile telephone.

Worldwide Wx on EFB

Avidyne's MLX-Series datalink transceivers deliver aviation-quality WSI® weather data using WSI InFlight 5.0 on ADR Florida's line of Electronic Flight Bags (EFBs). The simplicity and intuitive user interface of EFBs make them the ideal platform for display of aviation weather data. Software supports products such as ground-based Radar data, METARs, TAFs, winds & temperatures aloft, satellite infrared imagery, and global lightning data. The information is overlaid on a moving map display for easy interpretation and increased situational awareness.

The MLX-Series can support two independent RS-232 data connections for pilot and co-pilot EFBs. Avidyne's EFB interface enables general aviation aircraft without a certified Avidyne display access to the same safety-enhancing weather.



Avidyne MLX-series datalink transceivers are compatible with any Windows®-based EFB running WSI Inflight software.



EFBs from ADR-Florida have the ability to run Avidyne's FlightMax MFD software and display worldwide datalink graphical and textual weather in an easy-to-use MFD-style format.

Compatible EFBs will include:

✓ ADR (available mid 2009)

Available late 2009

- ✓ Nav Aero
- ✓ Astronautics
- ✓ CMC
- ✓ DAC
- ✓ FDR
- ✓ Paperless Cockpit
- ✓ Teledyne
- ✓ Universal Avionics
- ✓ Other Windows-Based EFBs

Worldwide Voice Communications

In addition to having the same worldwide datalink weather features as the MLX770, the MLX780 provides affordable in-flight satellite telephone capability that is well suited for cabin or cockpit use.

The MLX780 has industry-standard handset and 3rd-party dialer interfaces, plus an industry-standard audio panel interface that allows pilots to communicate directly through their headset.



The addition of airborne telephone capability provides our international customers with even more utility, plus it makes the system more compelling for pilots in the United States who have had access to broadcast datalink but have been wanting affordable telephone communication as well.



Versatile installation options with MLX780:

- Audio & Dialing via handset only:



- Audio through cockpit Audio Panel/Headset, dialing through handset:

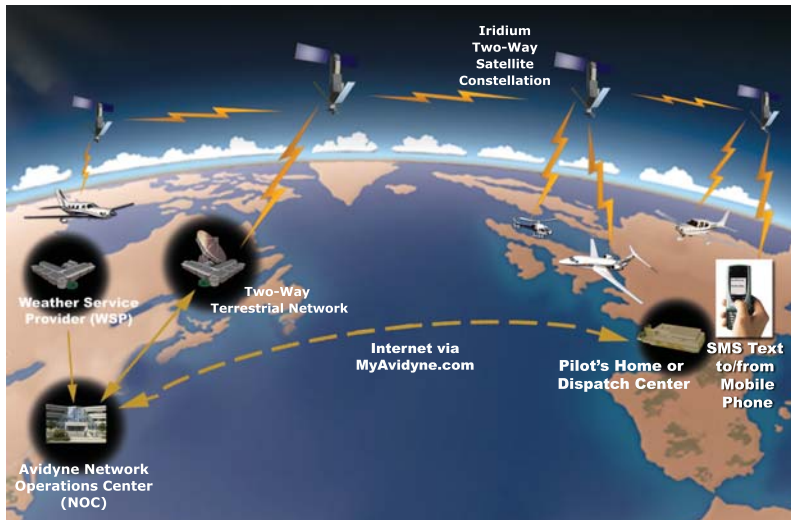


- Audio through cockpit Audio Panel via panel mount dialer, and/or handset in the cabin:



For Reference Only - Please refer to latest Installation Manual for provisioning details.

The MLX780 provides multiple options for wiring your handset and/or headset for airborne telephone capability.



The MLX770 & MLX780 provide worldwide datalink weather and communications capability utilizing the Iridium Satellite Constellation, WSI InFlight Weather Service, and Avidyne's Network Operations Center (NOC).

With the MLX770, Avidyne was first to market with a dedicated international weather datalink transceiver and is now utilizing the full power of the global Iridium network by adding voice capability.

The MLX780 is pin-compatible with the MLX770 so present installations are immediately upgradeable to the MLX780 with the addition of the voice interface (handset or audio panel).

Technical Specifications

MLX770/780 Datalink Transceiver

Dimensions: 6.0in x 11.0in x 3.0in (152mm x 279mm x 76mm)

Weight: 3.6 lbs. (1.64kgm)

Power: 10-32 VDC
0.4 A @ 28 VDC
0.7 A @ 14 VDC

ANT77 Antenna

Dimensions: 3.5in dia x .75 in (88mm x 14mm)

Weight: 0.37 lbs. (0.17kgm)

Display Options

- Entegra/EX5000 MFD with Release 8.0
- EX500 MFD with Release 4.0
- ADR EFB
- WSI InFlight-compatible EFB
- Independent RS-232 ports for Captain and First Officer EFBs

Voice Dialing Options

Will work with "industry standard" aviation handsets, panel mounted dialer, and audio panel (for headset interface)



Buy now to get weather data and text messaging for the 2009 flying season and save on voice capability.

You can even have your installer provision for voice support during the initial MLX770 installation.

To reward customers who buy now, Avidyne is running a special promotion of \$1,000 USD off the voice upgrade.

Get datalink weather now in time for thunderstorm season.

- ✓ Affordable Worldwide Datalink
- ✓ Aviation-quality weather from WSI®
- ✓ Supports multiple displays
- ✓ Supports SMS Text Messaging
- ✓ Interfaces with EX5000 & EX500 MFDs
- ✓ Interfaces with Electronic Flight Bags
- ✓ Provides affordable worldwide telephone service
- ✓ Flexible installation options for audio interconnection

Fixed Monthly Costs

- Worldwide weather - \$40
- Premium Radar / Lightning data --up to \$35

Usage Costs

- Text Message -- \$1 per message
- Weather Update -- \$1 per update (4 per hour internationally)
- Voice -- \$1.00 - \$1.50 per minute

International customers please contact:



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Avidyne reserves the right to make changes to product specifications and design features without notice. Some products may require additional hardware for full feature capability.

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