

LAQUA

LAQUA 1500 Series Benchtop Water Quality Meters



pH ORP Temperature Resistivity

Conductivity Total Dissolved Solids Salinity







Ideal for student training and routine applications.

Good value for money: no fancy bells and whistles which sounds good but are rarely used.

ORIBA

HORIBA

From a reputed manufacturer—one whose company was started with pH meters back in 1945.

Adjustable, Integrated Electrode Stand

Holds up to 2 electrodes and can be positioned on either side of the meter









HORIBA

Visual Electrode Status Indicator
Shows electrode

condition after calibration

Multi-voltage (100-240V) and 6 plugs (US, UK, EU, ANZ, Korea, China) included



Large Memory

Up to 1000 data sets



Efficiently capture and save data into internal memory

Adjustable Shutoff Time

Up to 30 mins











Auto Hold



Real Time



Smiley face and HOLD icons serve as reading stability indicators



Smaller Footprint

Occupies minimal space on lab desk



Ready to go out of the box

Meter kits come with 9625-10D and/or 9382-10D electrode(s) and calibration solutions



Data Output to Printer Capability

Print data using RS232 cable and printer







LAQUA-PH1500



- Provides accurate pH & ORP readings with auto temperature compensation
- Accepts up to 6 pH calibration points
- Auto calibrates USA, NIST, & DIN pH buffers
- Displays offset & average slope
- Allows 1-point ORP calibration and temperature calibration





501-S



502-S

pH/	LAQUA-PH1500 ORP/Temp (°C/°F) Bench Meter
pH Range	-2.00 to 16.00 pH
Resolution	0.01 pH
Accuracy	± 0.01 pH
pH Buffer Groups	USA, NIST, DIN
Calibration Points	Up to 5 (USA, NIST) / Up to 6 (DIN)
ORP Range	± 2000.0 mV
Resolution	0.1 mV (< ±1000 mV), 1 mV (≥ ±1000mV)
Accuracy	±0.3 mV (< ±1000 mV), 0.3% of reading (≥ ±1000mV)
Calibration Option	Yes (Up to ±200 mV)
Temperature Range	-30.0 to 130.0 °C / -22.0 to 266.0 °F
Resolution	0.1 °C / °F
Accuracy	± 0.5 °C / ± 0.9 °F
Calibration Option	Yes (± 10.0 °C / ± 18.0 °F range in 0.1 °C increments)
Memory	1000 data sets
Auto Data Log	Yes
Measurement Modes	Auto Stable / Auto Hold / Real Time
Offset & Slope Display	Yes (Average slope)
Auto Shut-Off	Yes (programmable: 1 to 30 mins.)
Electrode Status	On screen display
PC / Printer Communication	Phono jack (USB / RS232)
Meter Inputs	BNC, phono (ATC), DC sockets
Display	Static segment LCD with 160 segments
Power Requirement	AC adaptor 100 - 240V, 50 - 60Hz
Dimensions	155 (L) x 150 (W) x 67 (H) mm
Weight	727g
Electrode Stand	Integrated

	Meter Kits
PH1500 3200875198	 Meter with integrated electrode stand Universal power adaptor with 6 plugs Manual
	Box: 300(L)x165(W)x80(H)mm, approx. 1650g
PH1500-S 3200869155	 PH1500 9625-10D refillable, plastic body pH electrode with built-in temperature sensor 502-S USA pH buffers kit
	Box: 410(L)x260(W)x225(H)mm, approx. 2980g
PH1500-SN 3200875199	 PH1500 9625-10D refillable, plastic body pH electrode with built-in temperature sensor 501-S NIST pH buffers kit
	Box: 410(L)x260(W)x225(H)mm, approx. 2980g

LAQUA-EC1500



- Provides accurate conductivity readings with auto temperature compensation
- Accepts up to 5 conductivity calibration points
- Auto calibrates 84µS/cm, 1413µS/cm, 12.88mS/cm, & 111.8mS/cm standards
- Displays average calibration factor
- Allows 1-point salinity calibration and temperature calibration
- With pre-programmed TDS and salinity curves for various applications





503-S

TDS Curves	Applications
EN27888	Environmental
442 (Na ₂ SO ₄ , NaHCO ₃ , NaCl)	Boiler water, HVAC
NaCl	Aquaculture, pickling
Linear (KCI)	General

	LAQUA-EC1500
	vity/TDS/Salinity/Temp (°C/°F) Bench Meter
Conductivity Range	0.00 – 200.0 mS
Resolution	0.01 / 0.1 / 1 μS ; 0.01 / 0.1 mS
Accuracy	±0.6% full scale, ±1.5% full scale > 18.0 mS/cm
Reference Temperature	15.0 to 30.0 °C (adjustable)
Temperature Coefficient	0.00 to 10.00 % per °C (adjustable)
Cell Constants	0.070 to 13.00 (adjustable)
Calibration Points	Up to 4 (Auto) / Up to 5 (Manual)
Units	S/cm, S/m (Auto ranging)
Resistivity Range	0.000 Ω•cm to 20.0 MΩ•cm
Resolution	0.5% full scale
Accuracy	±0.6% full scale, ±1.5% full scale > 1.80 MΩ•cm
Total Dissolved Solids (TDS) Range	0 ppm - 100 ppt
Resolution	0.01 / 0.1 / 1 ppm ; 0.01 / 0.1 ppt
Accuracy	±0.1% full scale
TDS Curves	EN27888, 442, NaCl, Linear (0.40 to 1.00)
Salinity Range	0.0 to 100.0 ppt / 0.00 to 10.00 %
Resolution	0.1 ppt / 0.01%
Accuracy	±0.2% full scale
Salinity Curves	NaCl / Seawater
Calibration Option	Yes
Temperature Range	-30.0 to 130.0 °C / -22.0 to 266.0 °F
Resolution	0.1 °C / °F
Accuracy	± 0.5 °C / ± 0.9 °F
Calibration Option	Yes (± 10.0 °C / ± 18.0 °F range in 0.1 °C increments)
Memory	1000 data sets
Auto Data Log	Yes
Measurement Modes	Auto Stable / Auto Hold / Real Time
Auto Shut-Off	Yes (programmable: 1 to 30 mins.)
Electrode Status	On screen display
PC / Printer Communication	Phono jack (USB / RS232)
Meter Inputs	BNC, phono (ATC), DC sockets
Display	Static segment LCD with 160 segments
Power Requirement	AC adaptor 100 - 240V, 50 - 60Hz
Dimensions	155 (L) x 150 (W) x 67 (H) mm
Weight	727g
Electrode Stand	Integrated

	Meter Kits
EC1500 3200899658	 Meter with integrated electrode stand Universal power adaptor with 6 plugs Manual
	Box: 300(L)x165(W)x80(H)mm, approx. 1650g
EC1500-S 3200899661	 EC1500 9382-10D plastic body conductivity cell k=1.0 with built-in temperature sensor 503-S Conductivity standard solutions kit
	Box: 410(L)x260(W)x225(H)mm, approx. 3030g

LAQUA-PC1500



- Multi-parameter meter with dual channel input
- Combination of PH1500 and EC1500





Weight

Electrode Stand

502-S



503-S

	LAQUA-PC1500
pH/ORP/Conductivity/F	Resistivity/TDS/Salinity/Temp (°C/°F) Bench Meter
pH Range	-2.00 to 16.00 pH
Resolution	0.01 pH
Accuracy	± 0.01 pH
pH Buffer Groups	USA, NIST, DIN
Calibration Points	Up to 5 (USA, NIST) / Up to 6 (DIN)
ORP Range	± 2000.0 mV
Resolution	0.1 mV (< ±1000 mV), 1 mV (≥ ±1000mV)
Accuracy	±0.3 mV (< ±1000 mV), 0.3% of reading (≥ ±1000mV)
Calibration Option	Yes (Up to ±200 mV)
Conductivity Range	0.00 μS – 200.0 mS
Resolution	0.01 / 0.1 / 1 μS ; 0.01 / 0.1 mS
Accuracy	$\pm 0.6\%$ full scale, $\pm 1.5\%$ full scale > 18.0 mS/cm
Reference Temperature	15.0 to 30.0 °C (adjustable)
Temperature Coefficient	0.00 to 10.00 % per °C (adjustable)
Cell Constants	0.070 to 13.00 (adjustable)
Calibration Points	Up to 4 (Auto) / Up to 5 (Manual)
Units	S/cm, S/m (Auto ranging)
Resistivity Range	0.000 Ω•cm to 20.0 MΩ•cm
Resolution	0.5% full scale
Accuracy	±0.6% full scale, ±1.5% full scale > 1.80 MΩ•cm
Total Dissolved Solids	0.000 100.004
(TDS) Range	0 ppm – 100 ppt
Resolution	0.01 / 0.1 / 1 ppm ; 0.01 / 0.1 ppt
Accuracy	±0.1% full scale
TDS Curves	EN27888, 442, NaCl, Linear (0.40 to 1.00)
Salinity Range	0.0 to 100.0 ppt / 0.00 to 10.00 %
Resolution	0.1 ppt / 0.01%
Accuracy	±0.2% full scale
Salinity Curves	NaCl / Seawater
Calibration Option	Yes
Temperature Range	-30.0 to 130.0 °C / -22.0 to 266.0 °F
Resolution	0.1 °C / °F
Accuracy	± 0.5 °C / ± 0.9 °F
Calibration Option	Yes (\pm 10.0 °C / \pm 18.0 °F range in 0.1 °C increments)
Memory	1000 data sets
Auto Data Log	Yes
Measurement Modes	Auto Stable / Auto Hold / Real Time
Offset & Slope Display	Yes (Average slope)
Auto Shut-Off	Yes (programmable: 1 to 30 mins.)
Electrode Status	On screen display
PC / Printer Communication	Phono jack (USB / RS232)
Meter Inputs	2 x BNC, 2 x phono (ATC), DC sockets
Display	Static segment LCD with 160 segments
Power Requirement	AC adaptor 100 - 240V, 50 - 60Hz
Dimensions	155 (L) x 150 (W) x 67 (H) mm

	Meter Kits
PC1500 3200899659	 Meter with integrated electrode stand Universal power adaptor with 6 plugs Manual
	Box: 300(L)x165(W)x80(H)mm, approx. 1665g
PC1500-S 3200899662	 PC1500 9625-10D refillable, plastic body pH electrode with built-in temperature sensor 9382-10D plastic body conductivity cell k=1.0 with built-in temperature sensor 502-S USA pH buffers kit 503-S Conductivity standard solutions kit
	Box: 410(L)x260(W)x225(H)mm, approx. 3860g
PC1500-SN 3200899679	 PC1500 9625-10D refillable, plastic body pH electrode with built-in temperature sensor 9382-10D plastic body conductivity cell k=1.0 with built-in temperature sensor 501-S NIST pH buffers kit 503-S Conductivity standard solutions kit
	Box: 410(L)x260(W)x225(H)mm, approx. 3860g

740g

Integrated

Solutions, Electrodes, & Accessories

Part No. Model Description 3999960015 501-S NIST pH Buffers Kit (pH 4.01, 6.86, 9.18 buffers & 3.33M KCl, 250ml each) USA pH Buffers Kit (pH 4.01, 7.00, 10.01 buffers & 3.33M KCl, 250ml each) 3999960016 502-S USA pH Buffers Kit (pH 4.01, 7.00, 10.01 buffers & 3.33M KCl, 250ml each) 3999960028 500-2 pH 1.68 Buffer at 25°C, 500ml 3999960030 500-686 pH 6.86 Buffer at 25°C, 500ml 3999960031 500-7 pH 7.00 Buffer at 25°C, 500ml 3999960032 500-9 pH 9.18 Buffer at 25°C, 500ml 3999960033 500-10 pH 10.01 Buffer at 25°C, 500ml 3999960034 500-12 pH 12.46 Buffer at 25°C, 500ml ORP Standard Solution & Powders Part No. Model Description 4000047848 500-225 ORP Standard Solution 225 mV at 25°C (500ml) 1200043618 160-51 ORP Powder 89 mV at 25°C for 250ml (10 sachets/pack) ◆ Conductivity Standards Part No. Model Description Part No. Model Description Conductivity Standards Part No. Model Description 4000047848 Description Conductivity Standard Solutions Kit (84µS/cm, 1413µS/cm, 12.88mS/cm & 111.8mS/cm, 250ml each) 3999960035 500-21 84µS/cm Conductivity Standard Solution at 25°C, 500ml 3999960036 500-22 1413µS/cm Conductivity Standard Solution at 25°C, 500ml 3999960037 500-23 12.88mS/cm Conductivity Standard Solution at 25°C, 500ml pH / ORP Electrode Filling Solutions 3999960023 525-3 3.33M KCl, 250ml pH Electrode Cleaning Solutions
250ml each) 250ml each) 250ml each) 3999960028 500-2 pH 1.68 Buffer at 25°C, 500ml 3999960029 500-4 pH 4.01 Buffer at 25°C, 500ml 3999960030 500-686 pH 6.86 Buffer at 25°C, 500ml 3999960031 500-7 pH 7.00 Buffer at 25°C, 500ml 3999960032 500-9 pH 9.18 Buffer at 25°C, 500ml 3999960033 500-10 pH 10.01 Buffer at 25°C, 500ml 3999960034 500-12 pH 10.01 Buffer at 25°C, 500ml ORP Standard Solution & Powders Part No. Model Description ORP Powder 89 mV at 25°C for 250ml (10 sachets/pack) (12 sachets/pack) (12 sachets/pack) (13 sachets/pack) (14 sachets/pack) (15
250ml each) 3999960028 500-2 pH 1.68 Buffer at 25°C, 500ml 3999960029 500-4 pH 4.01 Buffer at 25°C, 500ml 3999960030 500-686 pH 6.86 Buffer at 25°C, 500ml 3999960031 500-7 pH 7.00 Buffer at 25°C, 500ml 3999960032 500-9 pH 9.18 Buffer at 25°C, 500ml 3999960033 500-10 pH 10.01 Buffer at 25°C, 500ml 3999960034 500-12 pH 12.46 Buffer at 25°C, 500ml ORP Standard Solution & Powders Part No. Model Description 400047848 500-225 ORP Standard Solution 225 mV at 25°C (500ml) 3200043618 160-51 ORP Powder 89 mV at 25°C for 250ml (10 sachets/pack) ◆ Conductivity Standards Part No. Model Description Conductivity Standards Part No. Model Description 400047848 500-225 ORP Conductivity Standard Solutions Kit (84μS/cm, 1413μS/cm, 12.88mS/cm & 111.8mS/cm, 250ml each) 3999960035 500-21 84μS/cm Conductivity Standard Solution at 25°C, 500ml 3999960036 500-22 1413μS/cm Conductivity Standard Solution at 25°C, 500ml 3999960037 500-23 12.88mS/cm Conductivity Standard Solution at 25°C, 500ml 3999960038 500-24 111.8mS/cm Conductivity Standard Solution at 25°C, 500ml 3999960038 500-24 111.8mS/cm Conductivity Standard Solution at 25°C, 500ml 3999960038 500-24 111.8mS/cm Conductivity Standard Solution at 25°C, 500ml 3999960038 500-24 111.8mS/cm Conductivity Standard Solution at 25°C, 500ml 3999960033 525-3 3.33M KCI, 250ml
399960029 500-4 pH 4.01 Buffer at 25°C, 500ml 399960030 500-686 pH 6.86 Buffer at 25°C, 500ml 3999960031 500-7 pH 7.00 Buffer at 25°C, 500ml 3999960032 500-9 pH 9.18 Buffer at 25°C, 500ml 3999960033 500-10 pH 10.01 Buffer at 25°C, 500ml 3999960034 500-12 pH 12.46 Buffer at 25°C, 500ml ORP Standard Solution & Powders Part No. Model Description 4000047848 500-225 ORP Standard Solution 225 mV at 25°C (500ml) 3200043618 160-51 ORP Powder 89 mV at 25°C for 250ml (10 sachets/pack) ◆ Conductivity Standards Part No. Model Description 999960017 503-S Conductivity Standard Solutions Kit (84µS/cm, 1413µS/cm, 12.88mS/cm & 111.8mS/cm, 250ml each) 3999960035 500-21 84µS/cm Conductivity Standard Solution at 25°C, 500ml 3999960036 500-22 1413µS/cm Conductivity Standard Solution at 25°C, 500ml 3999960037 500-23 12.88mS/cm Conductivity Standard Solution at 25°C, 500ml 3999960038 500-24 111.8mS/cm Conductivity Standard Solution at 25°C, 500ml 3999960038 500-24 111.8mS/cm Conductivity Standard Solution at 25°C, 500ml 3999960038 500-24 111.8mS/cm Conductivity Standard Solution at 25°C, 500ml 3999960033 525-3 3.33M KCl, 250ml 3200043640 300 3.33M KCl, 250ml
3999960030 500-686 pH 6.86 Buffer at 25°C, 500ml 3999960031 500-7 pH 7.00 Buffer at 25°C, 500ml 3999960032 500-9 pH 9.18 Buffer at 25°C, 500ml 3999960033 500-10 pH 10.01 Buffer at 25°C, 500ml 3999960034 500-12 pH 12.46 Buffer at 25°C, 500ml ORP Standard Solution & Powders Part No. Model Description 4000047848 500-225 ORP Standard Solution 225 mV at 25°C (500ml) 3200043618 160-51 ORP Powder 89 mV at 25°C for 250ml (10 sachets/pack) ◆ Conductivity Standards Part No. Model Description ORP Powder 258 mV at 25°C for 250ml (10 sachets/pack) ◆ Conductivity Standards Part No. Model Description 3999960017 503-S Conductivity Standard Solutions Kit (84μS/cm, 1413μS/cm, 12.88mS/cm & 111.8mS/cm, 250ml each) 3999960035 500-21 84μS/cm Conductivity Standard Solution at 25°C, 500ml 3999960036 500-22 1413μS/cm Conductivity Standard Solution at 25°C, 500ml 3999960037 500-23 12.88mS/cm Conductivity Standard Solution at 25°C, 500ml 3999960038 500-24 111.8mS/cm Conductivity Standard Solution at 25°C, 500ml 3999960038 500-24 111.8mS/cm Conductivity Standard Solution at 25°C, 500ml pH / ORP Electrode Filling Solutions 3999960023 525-3 3.33M KCl, 250ml
3999960031 500-7 pH 7.00 Buffer at 25°C, 500ml 3999960032 500-9 pH 9.18 Buffer at 25°C, 500ml 3999960033 500-10 pH 10.01 Buffer at 25°C, 500ml 3999960034 500-12 pH 12.46 Buffer at 25°C, 500ml ORP Standard Solution & Powders Part No. Model Description 3200043618 160-51 ORP Powder 89 mV at 25°C for 250ml (10 sachets/pack) (11 sachets/pack) (12 sams/pack) (13 sachets/pack) (13 sachets/pack) (14 sachets/pack) (15 sachets/pack) (16 sachets/pack) (17 sachets/pack) (17 sachets/pack) (17 sachets/pack) (17 sachets/pack) (17 sachets/pack) (17 sachets/pack) (18 sachets/p
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399960033 500-10 pH 10.01 Buffer at 25°C, 500ml 3999960034 500-12 pH 12.46 Buffer at 25°C, 500ml ORP Standard Solution & Powders Part No. Model Description 4000047848 500-225 ORP Standard Solution 225 mV at 25°C (500ml) 3200043618 160-51 ORP Powder 89 mV at 25°C for 250ml (10 sachets/pack) (200043617 160-22 ORP Powder 258 mV at 25°C for 250ml (10 sachets/pack) (200043617 160-22 ORP Powder 258 mV at 25°C for 250ml (10 sachets/pack) (200043617 160-22 ORP Powder 258 mV at 25°C for 250ml (10 sachets/pack) (200043617 160-22 ORP Powder 258 mV at 25°C for 250ml (10 sachets/pack) (200043617 160-22 ORP Powder 258 mV at 25°C for 250ml (10 sachets/pack) (200043617 160-22 ORP Powder 258 mV at 25°C for 250ml (10 sachets/pack) (200043617 160-22 ORP Powder 258 mV at 25°C for 250ml (10 sachets/pack) (200043617 160-22 ORP Powder 258 mV at 25°C for 250ml (10 sachets/pack) (200043617 160-22 ORP Powder 258 mV at 25°C for 250ml (10 sachets/pack) (200043617 113.88mS/cm & 111.8mS/cm, 250ml each) (200043617 12.88mS/cm & 111.8mS/cm Conductivity Standard Solution at 25°C, 500ml (200043610 160-23 12.88mS/cm Conductivity Standard Solution at 25°C, 500ml (200043610 160-23 12.88mS/cm Conductivity Standard Solution at 25°C, 500ml (200043610 160-23 13.33M KCl, 250ml (200043610 160-23 13.33M KCl, 250ml (200043610 160-23 13.33M KCl, 250ml (200043610 160-25°C, 500ml (200043610 16
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3999960037 500-23 12.88mS/cm Conductivity Standard Solution at 25°C, 500ml 3999960038 500-24 111.8mS/cm Conductivity Standard Solution at 25°C, 500ml pH / ORP Electrode Filling Solutions 3999960023 525-3 3.33M KCl, 250ml 3200043640 300 3.33M KCl, 250ml
3999960038 500-24 111.8mS/cm Conductivity Standard Solution at 25°C, 500ml pH / ORP Electrode Filling Solutions 3999960023 525-3 3.33M KCl, 250ml 3200043640 300 3.33M KCl, 250ml
pH / ORP Electrode Filling Solutions 3999960023 525-3 3.33M KCI, 250ml 3200043640 300 3.33M KCI, 250ml
3999960023 525-3 3.33M KCl, 250ml 3200043640 300 3.33M KCl, 250ml
3200043640 300 3.33M KCI, 250ml
pH Electrode Cleaning Solutions
Part No. Model Description
Cleaning solution for removing inorganic sample residues, 50ml x 2pcs
3200530494 230 Cleaning solution for removing inorganic and organic sample residues, Solution A (30ml) & Solution B (100ml)
3200366771 250 Cleaning solution for removing proteins, 400ml
Electrodes*
Part No. Model Description
3200360505 9625-10D Refillable, plastic-body pH electrode with built-in temperature sensor and 1m cable ORP electrode with flat platinum tip, temperature sensor, and
3014046710 9300-10D One electrode with hat platinum tip, temperature sensor, and 1m cable 2014046700 9300-10D Plastic-body, titanium / platinum black conductivity cell (k=1.0)
with built-in temperature sensor and 1m cable
Accessories Part No. Model Description
3014028368 X-51 Digital simulator for pH, mV, Ion, DO & temperature
3014028370 X-52 Digital simulator for conductivity & temperature
3014030146 - Printer for GLP / GMP compliance, 120V US version, plain paper included (printer cable is sold separately)
3014030147 - Printer for GLP / GMP compliance, 230V EU version, plain paper included (printer cable is sold separately)
3200779638 - 25-pin D-sub printer (RS232) cable (meter to printer), 1.5m
3014030149 - Printer paper, 20 rolls
3014030149 - Printer paper, 20 rolls 3014030150 - Printer ink ribbon, 5pcs/pack

^{*}Electrodes carry 6-month warranty against manufacturing defects.

501-S NIST pH Buffers Kit



502-S USA pH Buffers Kit





ORP Standard Solution



Cleaning Solutions





X-51 Digital Simulator

X-52 Digital Simulator

19.00



Printer

With over 60 years of engineering excellence, HORIBA's diverse range of water quality analyzers and electrodes are ideal for everyday laboratory needs through to the most demanding of applications. Visit our website for a wealth of useful information and water quality measurement tips to help you obtain the best results in your work.







Benchtop Meters

Developed using extensive feedback from users, our new LAQUA meters deliver the best solution for water quality analysis. Our LAQUA website features an online 'Selection Guide' to enable you to find the perfect LAQUA meter and electrode for your need.



Handheld Meters

In the lab, in the field or anywhere you need it. LAQUA Handheld meters are designed for use with one hand and with an IP67 waterproof rating and shock-resistant casing. Meters can be used for long periods, even in dark places, making it ideal for field measurements in rivers and lakes



Electrodes

Various electrodes to match any application. A wide range of products for both benchtop and portable systems are available, including easy and reliable standard models, applicationfocused models for small samples or large containers, and special electrodes for specific sample characteristics.



Pocket Meters

Analyzing water quality is simplified when using our LAQUAtwin range of meters. Designed to produce accurate and reliable results. Anyone, anywhere, at any time can measure samples easily with a LAQUAtwin meter. See just how good they are at our website.





LAQUAtwin pocket meters offer quick and convenient alternative to analyze important parameters with high accuracy. Several application notes are available at (http://goo.gl/znwE6j) detailing the use of LAQUAtwin and the results achieved for the respective applications. Additional application notes will be added when available.



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