XP30
PDA Keypad

XP30
Numeric Keypad
XP20
PDA Keypad

XP20
Numeric Keypad
XP30 Series Specifications

TECHNICAL
Operating System  Palm® OS 5.4.9
Processor  Freescale™ MX21-266MHz
Memory  32MB SDRAM
64MB NAND
NAND flash backup of OS, applications and user data
Expansion  User accessible mini-SD slot; compatible with up to 2GB mini-SD card
Battery  Swappable 3.7V 1880mAh rechargeable Li-ion
Backup Battery  Rechargeable 20mAH Ni-MH

PHYSICAL
Dimensions  1.20” H x 3.11” W x 5.75” L / 30.5mm H x 79mm W x 146mm L
Weight  9.88oz / 280g
Keypad  Backlit PDA keypad (with 4-way navigation) or backlit numeric keypad
Display Size  2.17”W x 2.95”L / 55.0mm W x 75.0mm L
Display Type  262K colors TFT QVGA (240x320)
Touch Panel  Analog resistance type; stylus input

ENVIRONMENTAL
Operating Temp  14º to 122ºF / -10º to 50º C
Storage Temp  -4º to 140ºF / -20º to 60º C
Humidity  5% to 90% RH (no condensation)
Drop  Multiple 4ft / 1.2m drops to concrete on all sides at full temperature range
Water & Dust  IP54 Category II
Vibration  0.03 G²/Hz from 20Hz to 2kHz; 1 hour random wave per axis
Electro Static Discharge (ESD)  +/- 15kVDC air; +/- 8kVDC contact
Sterilization  76.9% to 81.4% concentration alcohol rub
Ambient Light  450ft-candelas (artificial light); 8000ft-candelas (sunlight)

INTERFACE FEATURES
Audio  Speaker
Alerts  Vibration, LED indicators, audio beep
LED Indicators  Tri-color
Scan Triggers  Left, right, center buttons

DATA CAPTURE
Imager  1D/2D HHP Adaptus™ imaging technology; 752 x 480 pixel CMOS area imager
2D Symbologies  PDF417 (EAN-UCC Composite, MicroPDF417, PDF417, TCIF Linked Code 39, TLC39), 4-CB (4-State Customer Barcode), Australian Post, Aztec Code, Aztec Mesas, British Post, Canadian Post, Data Matrix, ID-tag (UPU 4-State), Japanese Post, KIX (Netherlands) Post, MaxiCode, OCR, Planet Code, Postnet, QR Code

DATA COMMUNICATION
IrDA  Standard v1.2 (up to 115,200bps)
USB  v1.1 client (up to 12Mbps)
WPAN  Bluetooth
WLAN  IEEE 802.11b/g radio, 2.4GHz, WPA support

ACCESSORIES
Single Slot Cradle  Synching/Charging Cable
Four Slot Cradle  Power Supply
Larger Capacity Battery  Line Cord
Magnetic Stripe Reader  Adjustable Handstrap
Stylus

SAFETY/REGULATORY
Safety  UL 60950-1, CSA C22.2 No. 60950-1, EN60950, GS
EMI  FCC Part 15 Class B, EN 55022 Class B (CE-EMC), EN 55024 (CE:EMC), AS/NZS CISPR 22 (C-Tick), ICES-003 Class B, SRRC, NOM
RF  FCC Part 15.27, ETS 300 328, ETS 300 826, AS/NZS 4771, IC RSS102, IC RSS210

Specifications subject to change.
Janam Technologies LLC
XP20 Series Specifications

TECHNICAL

Operating System  Palm® OS 5.4.9
Processor  Freescale™ MX21-266MHz
Memory  32MB SDRAM
64MB NAND
NAND flash backup of OS, applications and user data
Expansion  User accessible mini-SD slot; compatible with up to 2GB mini-SD card
Battery  Swappable 3.7V 1880mAh rechargeable Li-ion
Backup Battery  Rechargeable 20mAH Ni-MH

PHYSICAL

Dimensions  1.28” H x 3.11” W x 5.75” L / 32.5mm H x 79mm W x 146mm L
Weight  9.88oz / 280g
Keypad  PDA keypad (with 4-way navigation) or numeric keypad
Display Size  2.17”W x 2.95”L / 55.0mm W x 75.0mm L
Display Type  Bright white monochrome FSTN 160x160 LCD display
Touch Panel  Analog resistance type; stylus input

ENVIRONMENTAL

Operating Temp  14º to 122ºF / -10º to 50ºC
Storage Temp  -4º to 140ºF / -20º to 60ºC
Humidity  5% to 90% RH (no condensation)
Drop  Multiple 4ft / 1.2m drops to concrete on all sides at full temperature range
Water & Dust  IP54 Category II
Vibration  0.03 G²/Hz from 20Hz to 2kHz; 1 hour random wave per axis
Electro Static Discharge (ESD)  +/- 15kVDC air; +/- 8kVDC contact
Sterilization  76.9% to 81.4% concentration alcohol rub
Ambient Light  450ft-candelas (artificial light); 8000ft-candelas (sunlight)

INTERFACE FEATURES

Audio  Buzzer
Alerts  Vibration, LED indicators, audio beep
LED Indicators  Tri-color
Scan Triggers  Left, right, center buttons

DATA CAPTURE

Imager  1D/2D HHP Adaptus™ imaging technology; 752 x 480 pixel CMOS area imager
2D Symbologies (upgradeable)  PDF417 (EAN-UCC Composite, MicroPDF417, PDF417, TCIF Linked Code 39, TLC39), 4-CB (4-State Customer Barcode), Australian Post, Aztec Code, Aztec Mesas, British Post, Canadian Post, Data Matrix, ID-tag (UPU 4-State), Japanese Post, KIX (Netherlands) Post, MaxiCode, OCR, Planet Code, Postnet, QR Code

DATA COMMUNICATION

IrDA  Standard v1.2 (up to 115,200bps)
USB  v1.1 client (up to 12Mbps)
WLAN  IEEE 802.11b/g radio, 2.4GHz, WPA support

ACCESSORIES

Single Slot Cradle  Synching/Charging Cable
Four Slot Cradle  Power Supply
Larger Capacity Battery  Line Cord
Magnetic Stripe Reader  Adjustable Handstrap
Stylus

SAFETY/REGULATORY

Safety  UL 60950-1, CSA C22.2 No. 60950-1, EN60950, GS
EMI  FCC Part 15 Class B, EN 55022 Class B (CE:EMC), EN 55024 (CE:EMC), AS/NZS CISPR 22 (C-Tick), ICES-003 Class B, SRRC, NOM
RF  FCC Part 15.27, ETS 300 328, ETS 300 826, AS/NZS 4771, IC RSS102, IC RSS210

1/2007 (5) Specifications subject to change.

Janam Technologies LLC
## XP Series vs. Industry Standard Palm OS® Products

<table>
<thead>
<tr>
<th>FEATURE</th>
<th>XP SERIES</th>
<th>INDUSTRY STANDARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td>Palm OS v5.4.9</td>
<td>Palm OS v4.1</td>
</tr>
<tr>
<td>Size</td>
<td>376 cm³</td>
<td>&gt;410 cm³</td>
</tr>
<tr>
<td>Weight</td>
<td>280 grams</td>
<td>&gt;325 grams</td>
</tr>
<tr>
<td>Processing speed</td>
<td>266 MHz</td>
<td>33 MHz</td>
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<tr>
<td>Memory</td>
<td>32MB SDRAM / 64MB NAND</td>
<td>16MB SDRAM / 4MB ROM</td>
</tr>
<tr>
<td>Disaster recovery</td>
<td>“Total recall” non-volatile memory with NAND flash backup of operating system, application and user data</td>
<td>Not available</td>
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<tr>
<td>Data backup</td>
<td>User accessible mini-SD card slot supporting 128MB-2GB mini-SD cards</td>
<td>Not available</td>
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<tr>
<td>Display brightness</td>
<td>“Bright white” backlit monochrome display</td>
<td>Not available</td>
</tr>
<tr>
<td>Color display</td>
<td>Color QVGA display option</td>
<td>Not available</td>
</tr>
<tr>
<td>Wireless security</td>
<td>WiFi Protected Access (WPA)</td>
<td>Not available</td>
</tr>
<tr>
<td>Advanced WLAN</td>
<td>WLAN radio will support 802.11g</td>
<td>Not available</td>
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<tr>
<td>WPAN</td>
<td>Bluetooth available</td>
<td>Not available</td>
</tr>
<tr>
<td>USB support</td>
<td>USB v1.1 client supporting data rate up to 12 Mbps</td>
<td>Not available</td>
</tr>
<tr>
<td>Keypad options</td>
<td>Numeric keypad available, in addition to PDA keypad</td>
<td>Not available</td>
</tr>
<tr>
<td>Backlit keypad</td>
<td>Available with 6-LED illumination</td>
<td>Not available</td>
</tr>
<tr>
<td>Customizable keypad</td>
<td>Keypad designed for easy customization</td>
<td>Not available</td>
</tr>
<tr>
<td>Screen navigation</td>
<td>Four-direction navigation keys</td>
<td>Not available</td>
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<tr>
<td>Vibrator</td>
<td>Vibrator built in for notifications in noisy environments</td>
<td>Not available</td>
</tr>
<tr>
<td>Standard battery capacity</td>
<td>Rechargeable Li-ion 1880mAh</td>
<td>Not available</td>
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<tr>
<td>Larger capacity battery</td>
<td>2x battery option available for extended battery life</td>
<td>Not available</td>
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<tr>
<td>Battery protection</td>
<td>Built-in temperature sensor to provide additional protection</td>
<td>Not available</td>
</tr>
<tr>
<td>Scanning versatility</td>
<td>Omni-directional 1D barcode scanning</td>
<td>Not available</td>
</tr>
<tr>
<td>Scanning options</td>
<td>2D barcode reading option</td>
<td>Not available</td>
</tr>
<tr>
<td>RoHS compliance</td>
<td>Fully RoHS compliant</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Specifications subject to change.

Janam Technologies LLC

1/2007 (3)
XP20

XP20N-1PMLYC00  Batch, 1D scanning, 160x160 mono, 266MHz CPU, 32MB/64MB, PDA keypad, Palm v5.4.9, 1880mAh battery
XP20W-1PMLYC00  WLAN, 1D scanning, 160x160 mono, 266MHz CPU, 32MB/64MB, PDA keypad, Palm v5.4.9, 1880mAh battery
XP20N-1NMLYC00  Batch, 1D scanning, 160x160 mono, 266MHz CPU, 32MB/64MB, Numeric keypad, Palm v5.4.9, 1880mAh battery
XP20W-1NMLYC00  WLAN, 1D scanning, 160x160 mono, 266MHz CPU, 32MB/64MB, Numeric keypad, Palm v5.4.9, 1880mAh battery

XP30

XP30N-1PCLBC00  Bluetooth, 1D scanning, 240x320 QVGA color, 266MHz CPU, 32MB/64MB, PDA keypad, Palm v5.4.9, 1880mAh battery
XP30W-1PCLBC00  WLAN, Bluetooth, 1D scanning, 240x320 QVGA color, 266MHz CPU, 32MB/64MB, PDA keypad, Palm v5.4.9, 1880mAh battery
XP30N-1NCLBC00  Bluetooth, 1D scanning, 240x320 QVGA color, 266MHz CPU, 32MB/64MB, Numeric keypad, Palm v5.4.9, 1880mAh battery
XP30W-1NCLBC00  WLAN, Bluetooth, 1D scanning, 240x320 QVGA color, 266MHz CPU, 32MB/64MB, Numeric keypad, Palm v5.4.9, 1880mAh battery
XP30W-2PCLBC00  WLAN, Bluetooth, 1D/2D scanning with laser aimer, 240x320 QVGA color, 266MHz CPU, 32MB/64MB, PDA keypad, Palm v5.4.9, 1880mAh battery
XP30W-2NCLBC00  WLAN, Bluetooth, 1D/2D scanning with laser aimer, 240x320 QVGA color, 266MHz CPU, 32MB/64MB, Numeric keypad, Palm v5.4.9, 1880mAh battery

Accessories

2D-XP-1  2D Decode Firmware Upgrade  AC-XP-1  Power Supply for UC-XP-1 & SC-XP-1
CK-XP-1  Single Slot Cradle Kit  HS-XP-1  Handstrap
CK-XP-4  Four Slot Cradle Kit  ST-XP-5  Stylus (5-pack)
PS-XP-1  Power Supply for CK-XP-1  BA-XP-1  Battery (1880mAh 3.7V)
PS-XP-4  Power Supply for CK-XP-4  BA-XP-2  Extended Battery (3760mAh 3.7V)
SC-XP-1  Serial Synching/Charging Cable  BK-XP-2  Extended Battery and Cover
UC-XP-1  USB Synching/Charging Cable  MSR-XP-1  Magnetic Stripe Reader
**JANAM XP SERIES Accessory Sets**

**Single-Slot Cradle Kit**

- 1. Cradle
- 3. Line Cord
- 4. USB Cable

**Single-Slot Cradle Kit** (CK-XP-1)
Includes: single-slot cradle, single-slot cradle power supply, line cord and USB cable as shown.

Separately orderable item:
- Power supply for single-slot cradle (PS-XP-1)

**Four-Slot Cradle Kit**

- 1. Cradle
- 2. Power Supply for Four-Slot Cradle
- 3. Line Cord
- 4. USB Cable

**Four-Slot Cradle Kit** (CK-XP-4)
Includes: four-slot cradle, four-slot cradle power supply, line cord and USB cable as shown.

Separately orderable item:
- Power supply for four-slot cradle (PS-XP-4)

**Synching/Charging Cables**

**USB Synching/Charging Cable**
Requires two separately orderable items:
- USB synching/charging cable (UC-XP-1)
- Power supply (AC-XP-1)

**Serial Synching/Charging Cable**
Requires two separately orderable items:
- Serial synching/charging cable (SC-XP-1)
- Power supply (AC-XP-1)
## JANAM XP SERIES List Pricing

### XP20 Series

<table>
<thead>
<tr>
<th>Model</th>
<th>Features</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>XP20N-1PMLYC00</td>
<td>Batch, 1D scanning, 160x160 mono, 266MHz CPU, 32MB/64MB, PDA keypad, Palm v5.4.9, 1880mAh battery</td>
<td>$995</td>
</tr>
<tr>
<td>XP20W-1PMLYC00</td>
<td>WLAN, 1D scanning, 160x160 mono, 266MHz CPU, 32MB/64MB, PDA keypad, Palm v5.4.9, 1880mAh battery</td>
<td>$1,195</td>
</tr>
<tr>
<td>XP20N-1NMLYC00</td>
<td>Batch, 1D scanning, 160x160 mono, 266MHz CPU, 32MB/64MB, Numeric keypad, Palm v5.4.9, 1880mAh battery</td>
<td>$995</td>
</tr>
<tr>
<td>XP20W-1NMLYC00</td>
<td>WLAN, 1D scanning, 160x160 mono, 266MHz CPU, 32MB/64MB, Numeric keypad, Palm v5.4.9, 1880mAh battery</td>
<td>$1,195</td>
</tr>
</tbody>
</table>

### XP30 Series

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<thead>
<tr>
<th>Model</th>
<th>Features</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>XP30N-1PCLBC00</td>
<td>Bluetooth, 1D scanning, 240x320 QVGA color, 266MHz CPU, 32MB/64MB, PDA keypad, Palm v5.4.9, 1880mAh battery</td>
<td>$1,195</td>
</tr>
<tr>
<td>XP30W-1PCLBC00</td>
<td>WLAN, Bluetooth, 1D scanning, 240x320 QVGA color, 266MHz CPU, 32MB/64MB, PDA keypad, Palm v5.4.9, 1880mAh battery</td>
<td>$1,295</td>
</tr>
<tr>
<td>XP30N-1NCLBC00</td>
<td>Bluetooth, 1D scanning, 240x320 QVGA color, 266MHz CPU, 32MB/64MB, Numeric keypad, Palm v5.4.9, 1880mAh battery</td>
<td>$1,195</td>
</tr>
<tr>
<td>XP30W-1NCLBC00</td>
<td>WLAN, Bluetooth, 1D scanning, 240x320 QVGA color, 266MHz CPU, 32MB/64MB, Numeric keypad, Palm v5.4.9, 1880mAh battery</td>
<td>$1,295</td>
</tr>
<tr>
<td>XP30W-2PCLBC00</td>
<td>WLAN, Bluetooth, 1D/2D scanning w/laser aimer, 240x320 QVGA color, 266MHz CPU, 32MB/64MB, PDA keypad, Palm v5.4.9, 1880mAh battery</td>
<td>$1,545</td>
</tr>
<tr>
<td>XP30W-2NCLBC00</td>
<td>WLAN, Bluetooth, 1D/2D scanning w/laser aimer, 240x320 QVGA color, 266MHz CPU, 32MB/64MB, Numeric keypad, Palm v5.4.9, 1880mAh battery</td>
<td>$1,545</td>
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</tbody>
</table>

### Accessories

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>2D-XP-1</td>
<td>2D Decode Firmware Upgrade</td>
<td>$200</td>
</tr>
<tr>
<td>CK-XP-1</td>
<td>Single Slot Cradle Kit</td>
<td>$195</td>
</tr>
<tr>
<td>CK-XP-4</td>
<td>Four Slot Cradle Kit</td>
<td>$395</td>
</tr>
<tr>
<td>PS-XP-1</td>
<td>Power Supply for CK-XP-1</td>
<td>$65</td>
</tr>
<tr>
<td>PS-XP-4</td>
<td>Power Supply for CK-XP-4</td>
<td>$90</td>
</tr>
<tr>
<td>SC-XP-1</td>
<td>Serial Synching/Charging Cable</td>
<td>$35</td>
</tr>
<tr>
<td>UC-XP-1</td>
<td>USB Synching/Charging Cable</td>
<td>$30</td>
</tr>
<tr>
<td>AC-XP-1</td>
<td>Power Supply for UC-XP-1 &amp; SC-XP-1</td>
<td>$25</td>
</tr>
<tr>
<td>HS-XP-1</td>
<td>Handstrap</td>
<td>$15</td>
</tr>
<tr>
<td>ST-XP-5</td>
<td>Stylus (5-pack)</td>
<td>$10</td>
</tr>
<tr>
<td>BA-XP-1</td>
<td>Battery (1880mAh 3.7V)</td>
<td>$50</td>
</tr>
<tr>
<td>BA-XP-2</td>
<td>Extended Battery (3760mAh 3.7V)</td>
<td>$95</td>
</tr>
<tr>
<td>BK-XP-2</td>
<td>Extended Battery and Cover</td>
<td>$125</td>
</tr>
<tr>
<td>MSR-XP-1</td>
<td>Magnetic Stripe Reader</td>
<td>$195</td>
</tr>
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</table>

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