Company Profile

Who We Are
Founded in 2001, Union Semiconductor is a fabless integrated circuit design company, engaged in inventing, designing and marketing high performance linear and mixed-signal integrated circuits (ICs) for use in a variety of electronic equipment.
Union Semiconductor’s products bridge the analog real world and digital world by detecting, measuring, amplifying, converting power supply and providing protection for electronic circuits.

Corporate Mission
Union Semiconductor’s mission is to continuously develop high quality and innovative mixed signal IC solutions that add value to customers’ electronics equipment worldwide.

Products and Applications
Our products include power supplies, power management circuits, analog switches, interface circuits, ESD protection ICs and EMI filters.
Union Semiconductor markets over 180 analog ICs for uses in a wide variety of electronic equipment. These include PCs and their peripherals, portable devices, instrumentation, test equipments and digital consumer electronics.

Contact Us
Union Semiconductor, Incorporated.
Add: Room 606, No. 570 Shengxia Road, Zhangjiang Hi-Tech Park, Shanghai
Zip Code: 201210
Tel: 86-21-51093966
Fax: 86-21-51026018
Website: www.union-ic.com
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### Linear Regulators (LDOs)

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<tr>
<th>Part Number</th>
<th>Features</th>
<th>$V_{IN}$ (V)</th>
<th>$I_{OUT}$ (mA)</th>
<th>$Iq$ (μA)</th>
<th>$V_{AVG}$ (mV)</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>UM154xx</td>
<td>Ultra Low Dropout, Input Under Voltage Lockout</td>
<td>2.5</td>
<td>6.0</td>
<td>1.2 V to 5.0 V with 0.1 V Interval</td>
<td>300</td>
<td>120</td>
</tr>
<tr>
<td>UM365xx</td>
<td>Standard Low Dropout</td>
<td>2.5</td>
<td>6.0</td>
<td>1.2 V to 5.0 V with 0.1 V Interval</td>
<td>300</td>
<td>55</td>
</tr>
<tr>
<td>UM1650</td>
<td>350mA, Ultra Low Dropout, Input Under Voltage Lockout</td>
<td>2.5</td>
<td>6.0</td>
<td>Fixed 1.0 V to 4.0 V with 0.1 V Interval</td>
<td>350</td>
<td>90</td>
</tr>
<tr>
<td>UM175xx</td>
<td>Ultra Low Dropout, EN Control, Input Under Voltage Lockout</td>
<td>2.5</td>
<td>6.0</td>
<td>2.8/3.3 V Note1</td>
<td>300</td>
<td>120</td>
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<tr>
<td>UM375xx</td>
<td>Standard Low Dropout EN Control</td>
<td>2.0</td>
<td>6.0</td>
<td>1.2 V to 5.0 V with 0.1 V Interval</td>
<td>300</td>
<td>55</td>
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<tr>
<td>UM185xx</td>
<td>Ultra Low Dropout, EN Control, Input Under Voltage Lockout, Reverse Current Protection</td>
<td>2.5</td>
<td>6.0</td>
<td>1.2/1.5/1.8/2.5/2.7/3.0/3.3 V Note1</td>
<td>300</td>
<td>120</td>
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<tr>
<td>UM1750</td>
<td>350mA, Ultra Low Dropout, Input Under Voltage Lockout, Excellent Load Transient</td>
<td>2.5</td>
<td>6.0</td>
<td>Fixed 1.0 V to 4.0 V with 0.1 V Interval, or Adjustable Output from 1.0 V to 5.0 V</td>
<td>350</td>
<td>90</td>
</tr>
<tr>
<td>UM1770</td>
<td>500mA Output Current, Ultra Low Dropout, Input Under Voltage Lockout</td>
<td>2.5</td>
<td>6.0</td>
<td>Fixed 1.0 V to 4.0 V with 0.1 V Interval, or Adjustable Output from 1.0 V to 5.0 V</td>
<td>500</td>
<td>120</td>
</tr>
<tr>
<td>UM4750</td>
<td>Dual Channel Separate EN Control</td>
<td>2.5</td>
<td>5.5</td>
<td>1.2/1.3/1.8/2.5/2.7/3.0/3.3/3.6 V Note1</td>
<td>300</td>
<td>120</td>
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<tr>
<td>UM142xx</td>
<td>12V Input Voltage</td>
<td>2.5</td>
<td>12.0</td>
<td>2.5 V to 5.0 V with 0.1 V Interval</td>
<td>300</td>
<td>9</td>
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<tr>
<td>UM1430</td>
<td>18V Input Voltage</td>
<td>3.6</td>
<td>18.0</td>
<td>2.0 V to 6.0 V with 0.1 V Interval</td>
<td>30</td>
<td>4.8</td>
</tr>
<tr>
<td>UM1440</td>
<td>18V Input Voltage with EN Control</td>
<td>3.6</td>
<td>18.0</td>
<td>2.0 V to 6.0 V with 0.1 V Interval</td>
<td>30</td>
<td>4.8</td>
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<tr>
<td>UM153xx</td>
<td>Ultra Low Iq</td>
<td>2.2</td>
<td>5.5</td>
<td>1.2/1.5/1.8/2.5/2.8/3.0/3.3/3.5 V Note1</td>
<td>200 @ $V_{OUT}$=3.5V</td>
<td>0.8</td>
</tr>
<tr>
<td>UM154xx</td>
<td>Ultra Low Iq with EN Control</td>
<td>2.2</td>
<td>5.5</td>
<td>1.2/1.5/1.8/2.5/2.8/3.0/3.3/3.5 V Note1</td>
<td>200 @ $V_{OUT}$=3.5V</td>
<td>0.8</td>
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<tr>
<td>UM1550</td>
<td>Wide Input Voltage Range, Ultra Low Iq</td>
<td>1.8</td>
<td>8.0</td>
<td>1.2 V to 5.0 V with 0.1 V Interval</td>
<td>250</td>
<td>1.0</td>
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<tr>
<td>UM1230</td>
<td>1.4V Input Voltage</td>
<td>1.4</td>
<td>5.25</td>
<td>0.8 V to 3.6 V with 0.1 V Interval</td>
<td>300</td>
<td>50</td>
</tr>
<tr>
<td>UM1330</td>
<td>150mA Output Current, 40Vrms Low Noise</td>
<td>2.7</td>
<td>5.5</td>
<td>1.5 V to 3.3 V with 0.1 V Interval</td>
<td>150</td>
<td>45</td>
</tr>
</tbody>
</table>

**Note1:** Besides the standard output voltages listed in the table, customized output Voltage is also available from 1.2V to 5.0V at step of 100mV. Contact factory for product availability.

**Note2:** Dropout voltage is defined for $V_{OUT}$<2.5V device only.

*:* Future product. Contact factory for availability information.
Ultra Low Quiescent Current Linear Regulator
UM153xx/UM154xx

Key Features
- Ultra Low Iq: 0.8μA @ V_{IN}=3V
- Operating Voltage Range: 2.2V to 5.5V
- Dropout Voltage:
  - 100mV (Typ) @ I_{load}=50mA, V_{OUT}>3.0V
  - Output Voltage: 1.3V to 5.0V
- 100mA Guaranteed Output Current @ V_{IN}=3V
- 200mA Guaranteed Output Current @ V_{IN}=3.5V
- Fast Transient Response
- With Enable Control (UM154xx)

Applications
- Battery-Powered Systems
- Reference Voltage Sources
- Cameras, Video Cameras
- Portable AV Systems
- Portable Games
- Cellular Phones

Benefits
- Very Low Operating Voltage: 2.2V
- Ultra Low Iq Over All Operating Voltage Range: <3μA

300mA, Micropower, Dual Channel VLDO Linear Regulator
UM4750S/UM4750DA/UM4750DB

Key Features
- Very Low Dropout: <200mV @ 100mA
- Operating Voltage Range: 2.5V to 5.5V
- Low Noise: 200μVRMS (10Hz to 100kHz)
- Dual LDO Outputs (300mA/300mA)
- Output Current Limit
- Stable with 1μF Output Capacitor
- Thermal Overload Protection
- Low Profile SOT23-6, 6-Lead DFN2.0×2.0 and 8-Lead DFN3.0×3.0 Packages

Applications
- Bluetooth/802.11 Cards
- PDAs and Notebook Computers
- Portable Instruments and Battery-Powered Systems
- Cellular Phones

Benefits
- Low Profile Packages
- Separated Enable Control
- Available Multiple Output Voltage Combination

The UM4750 series are dual channel very low dropout (VLDO) linear regulators with separated enable control. The range of output voltage is from 1.2V to 5.0V while operated from 2.5V to 5.5V input. Typical output noise is only 200μVRMS and maximum dropout is just 200mV at the load current of 100mA.

Available Voltage Version

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>5</td>
<td>F</td>
<td>4.2</td>
<td>L</td>
<td>3.3</td>
<td>R</td>
</tr>
<tr>
<td>B</td>
<td>4.8</td>
<td>G</td>
<td>4</td>
<td>M</td>
<td>3</td>
<td>S</td>
</tr>
<tr>
<td>C</td>
<td>4.7</td>
<td>H</td>
<td>3.8</td>
<td>N</td>
<td>2.8</td>
<td>T</td>
</tr>
<tr>
<td>D</td>
<td>4.5</td>
<td>J</td>
<td>3.6</td>
<td>P</td>
<td>2.7</td>
<td>U</td>
</tr>
<tr>
<td>E</td>
<td>4.3</td>
<td>K</td>
<td>3</td>
<td>Q</td>
<td>2.5</td>
<td></td>
</tr>
</tbody>
</table>

UM4750 Pin Configurations
Product Selection Guide

Linear Regulators

18V, 30mA, Low Consumption Linear Regulator
UM1430/UM1440

Key Features

- Input Voltage Range: 3.6V to 18V
- Output Voltage: 2.0V to 6.0V with 100mV Interval
- 30mA Guaranteed Output Current
- Low Quiescent Current: 4.8μA (Typ) at 18V Input
- Low Dropout Voltage: 200mV (Typ) at 30mA
- With Enable Control (UM1440S/UM1440Y)

Quiescent Current vs Input Voltage

UM1430S, UM1430Y, UM1430B, UM1430S5 Pin Configurations

350mA, Micropower, Low Dropout Linear Regulator
UM1650/UM1750

Key Features

- Input Voltage Range: 2.5V to 6.0V
- 350mA Guaranteed Output Current
- Fixed Output Voltage of UM1650 and UM1750 from 1.0V to 4.0V with 0.1V Interval
- Adjustable Output Voltage of UM1750: 1.0V to 5.0V
- ±2% Voltage Accuracy at VOUT>1.5V
- ±30mV Voltage Accuracy at VOUT<1.5V
- Low Dropout Voltage: 150mV (Max) at 150mA
- PSRR=63dB @ f=100Hz
- Excellent Load Transient Response
- Low Quiescent Current: 90μA (Typ)

Load Transient Response

UM1650/UM1750 Pin Configurations
Product Selection Guide

Linear Regulators

500mA, Micropower, Ultra Low Vdrop Linear Regulator
UM1770

Key Features
- Very Low Dropout: 450mV (Max) at 500mA
- Low Enable Threshold Voltage
- Maximum Input Voltage: 6.0V
- Fixed Output Voltage: 1.0V to 4.0V with 0.1V Interval
- Adjustable Output Voltage: 1.0V to 5.0V
- ±2.0% Voltage Accuracy at 500mA
- Under Voltage Lockout
- Output Current Limit
- Short-Circuit and Thermal Overload Protection

150mA, Micropower, Low Dropout Linear Regulator
UM3730

Key Features
- Input Voltage Range: 2.5V to 5.5V
- 150mA Guaranteed Output Current
- ±2% Voltage Accuracy at 150mA
- Low Dropout Voltage: 155mV (Typ) at 150mA
- Low Enable Threshold Voltage
- Low Quiescent Current: 10μA
- Available Fixed Output Voltage: 1.0V to 3.3V with 0.1V Interval
- Output Auto Discharge
# Product Selection Guide

## Switching Regulators

### DC/DC Buck Converters

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>( V_{IN} ) (V)</th>
<th>( V_{OUT} ) (V)</th>
<th>( I_{\text{MAX}} ) (mA)</th>
<th>Frequency (MHz) (Typ)</th>
<th>Peak Efficiency</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>UM3500</td>
<td>Current Mode PWM Buck</td>
<td>2.5–5.5</td>
<td>0.6–( V_{IN} )</td>
<td>600</td>
<td>1.5</td>
<td>96%</td>
<td>SOT23-5</td>
</tr>
<tr>
<td>UM3501</td>
<td>Current Mode PWM Buck with Light Load Mode</td>
<td>2.5–5.5</td>
<td>0.6–( V_{IN} )</td>
<td>600</td>
<td>1.2</td>
<td>90%</td>
<td>DFN6 2.0×2.0</td>
</tr>
<tr>
<td>UM3501DA</td>
<td>Current Mode PWM Buck with Light Load Mode</td>
<td>2.5–5.5</td>
<td>0.6–( V_{IN} )</td>
<td>600</td>
<td>1.2</td>
<td>90%</td>
<td>DFN6 2.0×2.0</td>
</tr>
<tr>
<td>UM3510</td>
<td>Current Mode PWM Buck</td>
<td>2.5–5.5</td>
<td>0.6–( V_{IN} )</td>
<td>1000</td>
<td>1.5</td>
<td>96%</td>
<td>SOT23-5</td>
</tr>
<tr>
<td>UM3540</td>
<td>Current Mode PWM Buck with Light Load Mode</td>
<td>2.7–6.0</td>
<td>0.6–0.9×( V_{IN} )</td>
<td>4000</td>
<td>1.5</td>
<td>95%</td>
<td>SOP8</td>
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</table>

### DC/DC Boost Converters

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>( V_{IN} ) (V)</th>
<th>( V_{OUT} ) (V)</th>
<th>( I_{\text{MAX}} ) (mA)</th>
<th>Frequency (MHz) (Typ)</th>
<th>Peak Efficiency</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>*UM3429</td>
<td>Voltage Mode PWM Boost with Light Load Mode</td>
<td>0.9–4.4</td>
<td>2.5–5</td>
<td>600</td>
<td>0.6</td>
<td>92%</td>
<td>SOT23-6</td>
</tr>
<tr>
<td>UM1660</td>
<td>Constant Voltage PFM Boost Converter</td>
<td>2.0–6.0</td>
<td>2.0–28</td>
<td>450</td>
<td>1 (Max)</td>
<td>88%</td>
<td>DFN6 2.0×2.0</td>
</tr>
<tr>
<td>UM1665</td>
<td>Constant Voltage PFM Boost Converter</td>
<td>2.0–6.0</td>
<td>2.0–28</td>
<td>500</td>
<td>1 (Max)</td>
<td>88%</td>
<td>DFN6 3.0×3.0</td>
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</table>

### LED Backlight Boost Drivers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>( V_{IN} ) (V)</th>
<th>( V_{OUT} ) (Max)</th>
<th>( I_{\text{MAX}} ) (mA)</th>
<th>Frequency (MHz) (Max)</th>
<th>Peak Efficiency</th>
<th>Package</th>
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<tbody>
<tr>
<td>UM1661</td>
<td>Constant Current PFM Boost Converter with Over Voltage Protection</td>
<td>2.0–6.0</td>
<td>24</td>
<td>1600</td>
<td>2</td>
<td>88%</td>
<td>SOT23-6</td>
</tr>
<tr>
<td>*UM1662S</td>
<td>Constant Voltage PFM Boost Converter</td>
<td>2.0–6.0</td>
<td>28</td>
<td>450</td>
<td>1</td>
<td>88%</td>
<td>SOT23-5</td>
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<tr>
<td>*UM1663</td>
<td>Constant Current PWM Boost Converter</td>
<td>2.7–5.5</td>
<td>40</td>
<td>1200</td>
<td>1</td>
<td>90%</td>
<td>SOT23-5</td>
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### LED Lighting Buck Drivers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>( V_{IN} ) (V)</th>
<th>( V_{\text{SENSE}} ) (mV) (Typ)</th>
<th>( I_{\text{MAX}} ) (mA) (Min)</th>
<th>Frequency (MHz) (Max)</th>
<th>Peak Efficiency</th>
<th>Package</th>
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<tbody>
<tr>
<td>UM1350</td>
<td>35V Input 350mA Step-Down Current Mode LED Driver</td>
<td>7–30</td>
<td>100</td>
<td>370</td>
<td>1</td>
<td>&gt;90%</td>
<td>SOT23-5</td>
</tr>
<tr>
<td>UM1351S</td>
<td>35V Input 700mA Step-Down Current Mode LED Driver</td>
<td>6–35</td>
<td>100</td>
<td>1000</td>
<td>1</td>
<td>&gt;90%</td>
<td>SOT23-5</td>
</tr>
<tr>
<td>UM1351Y</td>
<td>35V Input 700mA Step-Down Current Mode LED Driver</td>
<td>6–35</td>
<td>100</td>
<td>1000</td>
<td>1</td>
<td>&gt;90%</td>
<td>SOT89-5</td>
</tr>
<tr>
<td>UM1360S</td>
<td>35V, 1A Step-Down Current Mode LED Driver, with Frequency Jitter</td>
<td>6–35</td>
<td>100</td>
<td>1200</td>
<td>1</td>
<td>&gt;90%</td>
<td>SOT23-5</td>
</tr>
<tr>
<td>UM1360Y</td>
<td>35V, 1A Step-Down Current Mode LED Driver, with Frequency Jitter</td>
<td>6–35</td>
<td>100</td>
<td>1200</td>
<td>1</td>
<td>&gt;90%</td>
<td>SOT89-5</td>
</tr>
<tr>
<td>UM1361S</td>
<td>40V Input 1A Step-Down Current Mode LED Driver</td>
<td>6–40</td>
<td>100</td>
<td>1500</td>
<td>1</td>
<td>&gt;90%</td>
<td>SOT23-5</td>
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<tr>
<td>*UM1370S</td>
<td>40V Input 1.2A Step-Down Current Mode LED Driver</td>
<td>6–40</td>
<td>100</td>
<td>1800</td>
<td>1</td>
<td>&gt;90%</td>
<td>SOT23-5</td>
</tr>
</tbody>
</table>

*Future product, contact factory.*
**Product Selection Guide**

**Switching Regulators**

**30V, 350mA LED Lighting Driver**  
**UM1350**

**Key Features**
- Internal 30V NDMOS Switch
- 350mA Output Current
- Wide Input Voltage Range: 6V to 30V
- ±5% LED Current Accuracy
- High Efficiency (up to 95%)
- Analog or PWM Dimming Control
- 40V Transient Capability
- Inherent Open-Circuit LED Protection
- Output Shutdown Control
- Up to 1MHz Switching Frequency
- Pb-Free SOT23-5 Package

**Applications**
- MR16 and General Lighting
- Automotive Lighting
- Low Voltage Industrial Lighting
- Illuminated Signs

**Benefits**
- DC Voltage or PWM Dimming
- High Efficiency (up to 95%)
- Inherent Open-Circuit LED Protection

**35V, 1A LED Lighting Driver**  
**UM1360S/UM1360Y**

**Key Features**
- Integrated 35V 0.4Ω NDMOS
- 1A Output Current
- Wide Input Voltage Range: 6V to 35V
- ±5% LED Current Accuracy
- Up to 95% Efficiency
- Adjustable Constant LED Current
- Analog or PWM Dimming Control
- Improved EMI through Frequency Jitter
- Over Temperature and Open-Circuit LED Protection
- Up to 1MHz Switching Frequency
- Pb-Free SOT23-5 and SOT89-5 Packages

**Applications**
- Low Voltage Industrial Lighting
- Illuminated Signs
- DC/DC or AC/DC LED Driver Application
- General Purpose, Constant Current Source

**Benefits**
- DC Voltage or PWM Dimming
- Inherent Open-Circuit LED Protection

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The UM1350 is capable of driving single or multiple series connected LEDs efficiently from a voltage source higher than the LED voltage. This step-down converter provides an externally adjustable output current of up to 350mA from an input supply between 6V and 30V. It can even reach 8 watts of output power, depending on supply voltage and external components. The UM1350 is available in a low profile SOT23-5 package.

The UM1360 is a PWM step-down converter with internal power switch, designed for driving single or multiple series connected LEDs efficiently from a voltage source higher than the LED voltage. The device operates from an input supply between 6V and 35V and employs hysteretic control with a high side current sense resistor to set the constant output current up to 1A.
**Product Selection Guide**

**Switching Regulators**

600mA, 1.2MHz, Synchronous Step-Down DC-DC Converter

**UM3501/UM3501DA**

**Key Features**
- High Efficiency: up to 90%
- 2.5V to 5.5V Input Voltage Range
- 600mA Output Current
- 1.2MHz Constant Switching Frequency
- Integrated Main Switch and Synchronous Rectifier
- Pulse Skipping Mode Operation at Light Load Condition
- Low Quiescent Current: 50μA
- <1μA Shutdown Current
- Lead Free SOT23-5 (UM3501) and DFN6 2.0×2.0 (UM3501DA) Packages

**Benefits**
- Pulse Skipping Mode Improves Efficiency at Light Load Operation
- Synchronous Rectifier, No External Schottky Diode Required
- Ultra Low Shutdown Current

**28V Low Power DC/DC Boost Converter**

**UM1660S/UM1660DA**

**Key Features**
- 2.0V to 6.0V Input Voltage Range
- Adjustable Output Voltage up to 28V
- 400mA Internal Switch Current
- Up to 1MHz Switching Frequency
- 36μA Typical No Load Quiescent Current
- 1μA Maximum Shutdown Current
- Internal Soft-Start
- Tiny SOT23-5 and DFN6 2.0×2.0 Packages

**Applications**
- LCD Bias Supply
- White LED Supply for LCD Backlights
- Digital Still Cameras
- PDAs, Organizers and Handheld PCs
- Cellular Phones
- Standard 3.3V/5V to 12V Conversion

The UM1660 is a PFM controlled step-up DC-DC converter with a switching frequency up to 1MHz. The device is ideal to generate output voltage for small to medium LCD bias supplies and white LED backlight supplies from a single cell Li-ion battery. The part can also be used to generate standard 3.3V/5V to 12V power conversions.
Sales Contact

Union Semiconductor Sales Office

Union Semiconductor, Inc.
Add: 5201 Great America Pkwy, Suite 320, Santa Clara, CA 95054
Tel: +1-855-668-7711
E-mail: sales@union-ic.com

Union Semiconductor (Shanghai) Ltd.
Add: Room 606, No. 570 Shengxia Road, Zhangjiang Hi-Tech Park, Shanghai
Tel: (86)21-51093966
Fax: (86)21-51026018
E-mail: sales@union-ic.com

Union Semiconductor (Shenzhen) Ltd.
Add: Room 1202, Anhui Building, No. 6007 Shennan Road, Futian District, Shenzhen
Tel: (86)755-88309242/88309243/88309244
Fax: (86)755-88309242-808
E-mail: sales@union-ic.com

Union Semiconductor (HK) Ltd.
Add: Unit 202, No.8 Science Park West Avenue, Hong Kong Science & Technology Park, NT, Hong Kong
Tel: (852)22107006
Fax: (852)83431122
E-mail: sales@union-ic.com

Union Semiconductor, Beijing Office
Tel: (86)21-68367050
E-mail: sales@union-ic.com

Union Semiconductor, Qingdao Office
Tel: (86)21-68367050
E-mail: sales@union-ic.com
CONTACT US

UNION SEMICONDUCTOR, INCORPORATED.
Add: Unit 606, No. 570 Shengxia Road, Zhangjiang Hi-Tech Park, Shanghai
Zip Code: 201210
Tel: 86-21-51093966
Fax: 86-21-51026018
Website: www.union-ic.com