With over a decade of commercial experience, ArrayComm has a proven track record of bringing complete base station products and systems to the market on a variety of air interfaces. This unique combination of expertise and experience provides the foundation for our Baseport line of complete 4G PHY products. Baseport products deliver all of the baseband PHY processing software needed for implementation on a target hardware platform, integrated seamlessly with MAC software for superior performance. ArrayComm’s commercial experience working with all industry-standard platforms ensures a smooth integration process.

Development teams are being asked to do more with less. At the same time, investment in new platforms is needed for small pico- and femtocell solutions that can maximize the capacity and revenue potential for 4G wireless broadband networks. ArrayComm’s ability to deliver fully tested, commercial-ready Baseport PHY products for all tiers of WiMAX and LTE base stations enables equipment suppliers to keep pace with the breadth of market demands for high-performance products by maximizing the productivity of internal development teams.

**Overview**

**A Complete PHY Solution**
- Scalable to a variety of configurations
- Tailored to meet customer requirements

**Interoperability**
- LTE 3GPP Release 8, 9, 10
- IEEE 802.16e
- WiMAX Forum Wave 2 Compliant

**A-MAS Advanced Features**
- Superior uplink control channel receivers
- Uplink beamforming
- Downlink beamforming

**ArrayComm Experience**
- Founded in 1992 by Marty Cooper
- Specializing in delivery of superior baseband technology for more than 15 years
- Commercially deployed baseband software in 300,000 base stations worldwide
- Full PHY solutions and advanced feature integrations

**Baseport™ PHY for 4G BTS**

**Complete Baseband Processing Solutions**

With over a decade of commercial experience, ArrayComm has a proven track record of bringing complete base station products and systems to the market on a variety of air interfaces. This unique combination of expertise and experience provides the foundation for our Baseport line of complete 4G PHY products. Baseport products deliver all of the baseband PHY processing software needed for implementation on a target hardware platform, integrated seamlessly with MAC software for superior performance. ArrayComm’s commercial experience working with all industry-standard platforms ensures a smooth integration process.

Development teams are being asked to do more with less. At the same time, investment in new platforms is needed for small pico- and femtocell solutions that can maximize the capacity and revenue potential for 4G wireless broadband networks. ArrayComm’s ability to deliver fully tested, commercial-ready Baseport PHY products for all tiers of WiMAX and LTE base stations enables equipment suppliers to keep pace with the breadth of market demands for high-performance products by maximizing the productivity of internal development teams.

**Overview**

**A Complete PHY Solution**
- Scalable to a variety of configurations
- Tailored to meet customer requirements

**Interoperability**
- LTE 3GPP Release 8, 9, 10
- IEEE 802.16e
- WiMAX Forum Wave 2 Compliant

**A-MAS Advanced Features**
- Superior uplink control channel receivers
- Uplink beamforming
- Downlink beamforming

**ArrayComm Experience**
- Founded in 1992 by Marty Cooper
- Specializing in delivery of superior baseband technology for more than 15 years
- Commercially deployed baseband software in 300,000 base stations worldwide
- Full PHY solutions and advanced feature integrations

**A Practical Baseband Solution for 4G**

- Full commercial capability delivered in a PHY module fully tested for OEM-specified Layer 1/2 integrated packages
- Can be implemented on all major DSP platforms
- Scalable to 8 antennas, 20 MHz BW, 4 MIMO layers, multiple sectors
- Comprehensive OEM custom integration and support services through OTA interoperability testing
- Enables A-MAS™ – ArrayComm Multi-Antenna Signal Processing
What We Deliver

Typical Baseport Software Architecture

<table>
<thead>
<tr>
<th>MAC</th>
<th>O&amp;M</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC-PHY Interface Layer</td>
<td>O&amp;M-PHY Interface Layer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Baseport Complete PHY</th>
</tr>
</thead>
<tbody>
<tr>
<td>HW Abstraction Layer (OS Wrapper, RF Drivers)</td>
</tr>
<tr>
<td>HW Platform (GPP, DSP, FPGA)</td>
</tr>
</tbody>
</table>

Legend

- Baseport from ArrayComm
- DSP Platform
- Partner SW

Baseport Advantages

- Target-optimized PHY
- Best-in-class MAS processing
- Customizable, fully-tested modules
- Flexible API and scalability
- Leading-edge roadmap

Benefits for OEMs

- Lower engineering cost
- Higher system performance
- Faster integration
- Configuration flexibility
- Standards compliance

Solution

- Integrated PHY solution
- Optimized DSP/FPGA software
- Customizable MAC and RF interface
- Calibration reference design
- MAC scheduling guidelines

Test Suites

- Functional verification
- Performance verification

Documentation

- Platform architecture requirement
- PHY API specification
- Test plans

Regional Support

- Five offices worldwide

Contact Us

Headquarters
ArrayComm LLC
1110 West Lake Cook Road
Buffalo Grove, Illinois 60089
U.S.A.
info@arraycomm.com

San Jose, California
info-sanjose@arraycomm.com

Chengdu, China
info-china@arraycomm.com

Ramat Gan, Israel
info-israel@arraycomm.com

Yokohama, Japan
info-japan@arraycomm.com