Welcome to 2017 Analyst Day

September 21, 2017
Safe Harbor for Forward-Looking Statements

This presentation contains forward-looking statements regarding our financial prospects, including financial guidance for 3Q-2017, markets, demand for our products, and product development, among other things. Such forward-looking statements are based on current expectations, estimates and projections about the Company’s industry and management’s beliefs and assumptions. These statements are subject to risks and uncertainties which are more fully described in the documents that we file with the SEC, including our 10-Ks, 10-Qs and 8-Ks, and these statements may differ materially from our actual results.

This presentation contains non-GAAP financial measures such as non-GAAP operating Income, margin and EPS, and Adjusted EBITDA and EBITDA margins. We believe the presentation of these non-GAAP measures provide management and investors with meaningful information to understand and analyze our financial performance. Reconciliations of these non-GAAP measures to their most directly comparable GAAP measures can be found in the Appendix to the presentation. However, this presentation should not be considered in isolation or as a substitute for the comparable GAAP measurements, when available.
Mobile Edge

Dr. Martin Scott
General Manager,
Security Division
The Mobile Edge
Data • Safer

Embedded Security
Secure Cores
Embedded device protection
CryptoManager Platform
Secure provisioning and key management

Secure Services
CryptoManager Trusted Services
Device security management

Secure Software
Mobile Payments
Secure payments and trusted transactions
Smart Ticketing
Simplified travel with mobile ticketing

Mobile Edge
Security from Chip to Cloud to Crowd

- **Trust by Design**
- **Secure Assets & Clusters**
- **Device Configurations & Customer Demands**
- **Applications & Services**
- **Customer Data & Intelligence**

**Manufacturing**
- Over 9 billion chips/year with DPA license
- CryptoManager Cores and Infrastructure with Qualcomm and others
- Over 1.5 billion chips configured since 2016

**In-field**
- 100s of billions of payment and ticketing transactions secured
- Recently announced CryptoManager IoT Device Management Service

**Moving Data Faster & More Securely**
The Mobile Edge
Data • Safer

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CryptoManager Platform Ecosystem

- **CryptoManager Platform**
  - Sell hosted service
  - IoT Security Service
  - License software + sell appliances
  - CM SDK and Infra
  - License cores + sell appliances
  - CM Core and Infra

- **Service Provider**
  - Platform as a Service (PaaS) Provider

- **OEM**
  - License software + sell appliances

- **Chip Maker**
  - License cores + sell appliances

- **Connected Devices**
Expanding the CryptoManager Platform Ecosystem

Rambus to Demonstrate IoT Security Technology in Qualcomm Booth at CES
Demonstration showcases ability to minimize DDoS attacks through secure connectivity, monitoring and provisioning of IoT endpoints

Rambus and Synopsys Collaborate to Deliver Provisioning Services for Hardware Secure Modules
Solution enables secure, remote lifecycle management for automotive, IoT and mobile applications

Rambus and Cybertrust Partner to Secure Connected Devices
Cybertrust selects Rambus CryptoManager™ Infrastructure for secure device management and software updates

Rambus to Demonstrate CryptoManager IoT Device Management with STMicroelectronics
Joint demonstration at IoT World showcases secure IoT device connectivity, monitoring and provisioning
IoT Security
Simple, Secure, IoT Device Management

Secure Connectivity
- End-to-end Secure Connectivity
- Device Identification and Mutual Authentication
- Access Control

Security Lifecycle Management
- Key Management and Disaster Recovery
- Device Decommission and Re-assignment
- Device Attestation

Service High Availability
- Application Level DDoS Protection
- Anomaly Detection and Quarantine

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Device Security Management
The Mobile Edge

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Embedded Security
- Secure Cores
  - Embedded device protection

CryptoManager Platform
- Secure provisioning and key management

Secure Services
- CryptoManager Trusted Services
  - Device security management

Secure Software
- Mobile Payments
  - Secure payments and trusted transactions

Secure Software
- Smart Ticketing
  - Simplified travel with mobile ticketing
Mobile Payments Ecosystem

- Merchant Acquirers
- Retailers
- Issuing Banks
- Mobile Wallet
- Card Schemes

- License software and apps
- UPP Software & App
- License software and apps
- UPP Software & App
- License software and implementation services
- HCE & Tokenization Software

UPP Software & App

License software and apps

OEM Pay

Card Schemes
Unified Payment Platform
Scan and Go with In-aisle Check Out

<table>
<thead>
<tr>
<th>New Account</th>
<th>In-Aisle Purchase</th>
<th>In-store Advertising</th>
<th>Mobile Check Out</th>
<th>Complete Shopping</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Create account with retailer</td>
<td>• Chose an item, photo/scan to add to virtual cart</td>
<td>• Receive in-store coupons and recommendations based on cart items or geo-beacons</td>
<td>• Check out on mobile device and skip the lines</td>
<td>• Print or show mobile receipt</td>
</tr>
<tr>
<td>• Load CC info</td>
<td>• Place item in cart or collect on check-out</td>
<td>• Order-ahead goods or services</td>
<td>• Automatically accrue loyalty points</td>
<td>• Collect items</td>
</tr>
<tr>
<td>• Enable account-based retail</td>
<td>• Gather customer purchasing data, shopping trends</td>
<td>• Increase upsell and cross-sell opportunities</td>
<td>• Reduce CC transaction fees with integrated retail CC payments</td>
<td>• Go home happy</td>
</tr>
<tr>
<td>• Create integrated online-to-in store experience</td>
<td></td>
<td></td>
<td>• Reduce staff requirements for check-out lines</td>
<td></td>
</tr>
<tr>
<td>Retailer</td>
<td></td>
<td></td>
<td>• Free up more in-store sq. footage for product</td>
<td></td>
</tr>
<tr>
<td>• Increase upsell and cross-sell opportunities</td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Consumer

Retailer

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Mobile Ticketing
# Going Ticketless with Frictionless Travel

**New Account**
- Create account
- Add CC info

**Ticketless Travel**
- Go to train & get on – no ticket required
- Receive updated schedules automatically
- Go to train & get on – no ticket required
- Receive updated schedules automatically

**In-transit Services**
- Receive location-based coupons
- Pay In-app

**Easy Payment**
- Get off train and go – fare automatically debited
- Lowest fare automatically selected

**Travel Assistance**
- Auto-updated with travel times of frequently-traveled routes
- Receive loyalty/frequent rider discounts

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**Operator**
- Enable account-based ticketing to capture metadata for every user
- Enable mobile GPS, tap on/off or geo beacons track fare
- Reduce/eliminate ticketing machines and monetize new rental space

**Consumer**
- Use Coupon
- New Account Ticketless Travel
- In-transit Services
- Easy Payment
- Travel Assistance
Getting Smarter with Data

- Create a centralized database of customer trends and travel patterns
- Improve cost-effectiveness and operational efficiency with real-world travel data analysis
- Enable operators to optimize services, fee structures and promotions using detailed travel data
Protecting Digital Value with Tokens

Tokenization enhances confidentiality and privacy of data by replacing important credentials with a dynamic value unique to each use.

Use Cases:
- Mobile payments
- Ticketing
- E-commerce
- Medical records
- Connected device IDs
Growing Opportunity in Mobile Edge

<table>
<thead>
<tr>
<th>Year</th>
<th>RSD Revenue</th>
<th>Smart Ticketing</th>
<th>Mobile Payment</th>
<th>Architecture Licensing and Cores</th>
<th>Provisioning IoT</th>
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</thead>
<tbody>
<tr>
<td>2016 Rev</td>
<td>100</td>
<td></td>
<td></td>
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<tr>
<td>2016 SAM</td>
<td>200</td>
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<tr>
<td>2018 SAM</td>
<td>800</td>
<td>200</td>
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<td>2021 SAM</td>
<td>2,600</td>
<td>100</td>
<td>800</td>
<td>200</td>
<td>1,000</td>
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</table>

Source: ABI Research, Gartner, IHS, The Linley Group, MarketsMarch, Markets and Markets, Office of Rail and Road, Strategy Analytics, and Rambus estimates.